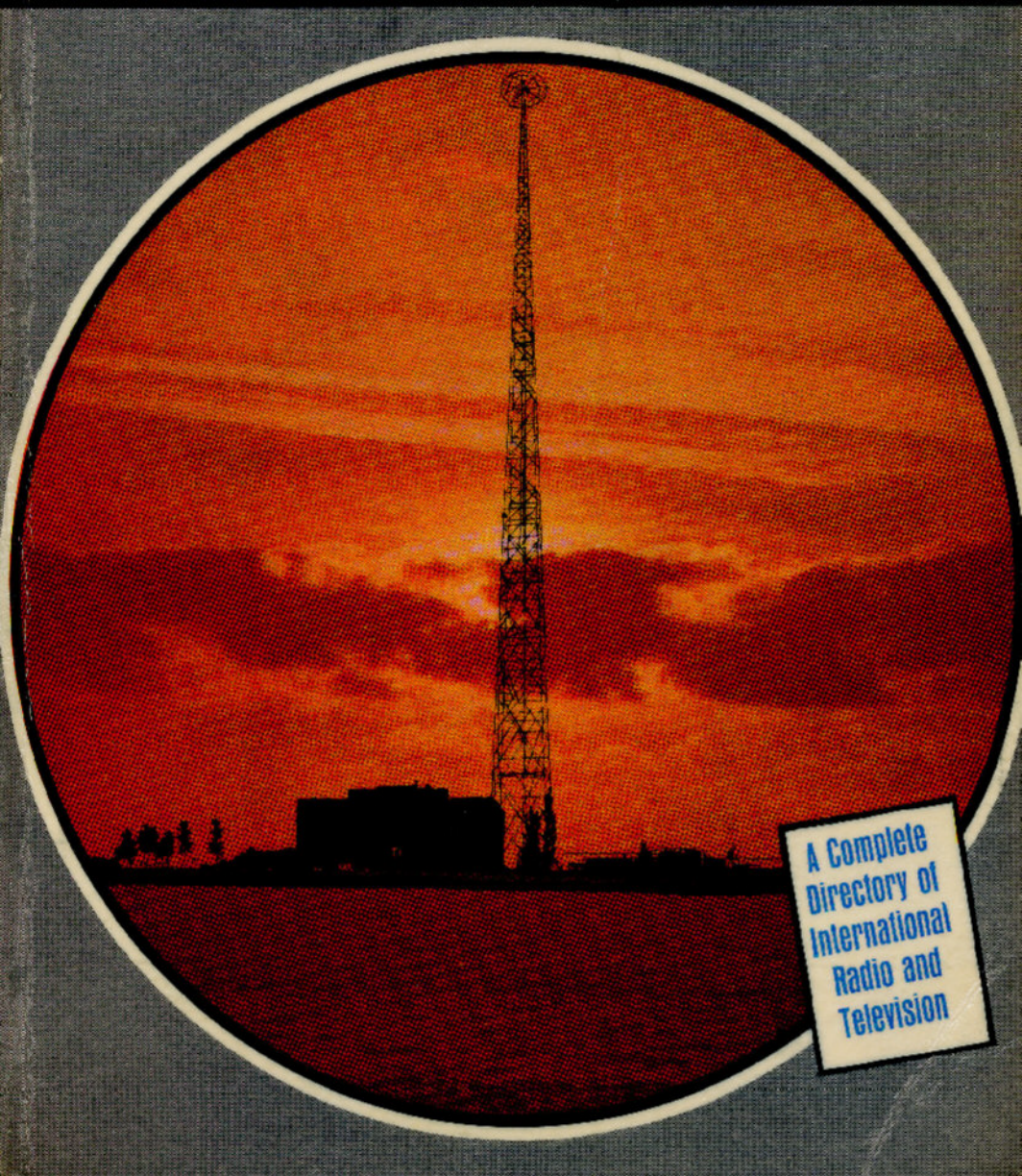
world radio-tv handbook

1969



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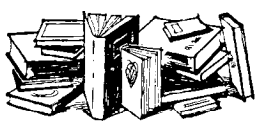

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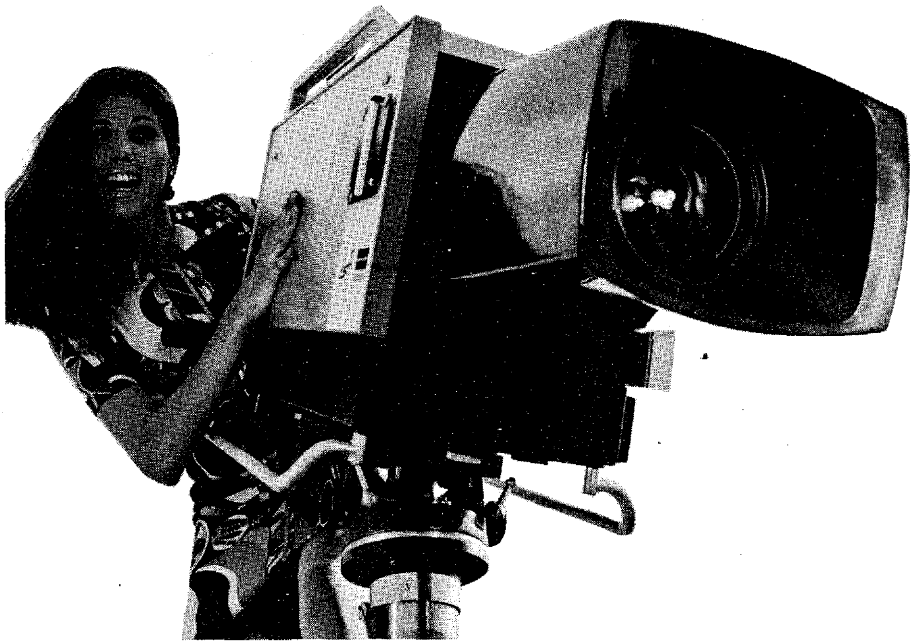

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PREFACES

Although not large in area, Switzerland is a surprisingly complex country, as outside observers of our way of life discover. The fact that Switzerland is able to remain a real entity despite its great differences in tradition, politics, languages and culture is due to the federalist system which is its chief characteristic.

It will be obvious that Swiss radio and television services are in tune with this federalism which allows them to do their job under the best possible conditions. This also means that both radio and television reflect the rich complexity of Swiss federalism. The SBC (1) transmits two radio programmes and one television programme (2) for each of its three linguistic regions. Then there are the external services of the SBC, transmitting more than 50 hours of programmes per day for Europe and overseas, and to which I have the honour to belong.

The need to speak to listeners beyond the frontiers of Switzerland first became apparent in the 1930's. At that time it was thought advisable, above everything else and irrespective of how the increasingly dangerous international situation would develop, to set up and maintain an immediate and permanent valid link with the hundreds of thousands of Swiss citizens living in other countries.

Thus, the Swiss Short Wave Service carried out the task assigned to it, but soon it also began to attract the attention of non-Swiss listeners who today make up more than 90% of our audiences.

What do these listeners expect of us? From the comments and suggestions we receive, we can reasonably conclude that what our audiences want from the Swiss Shortwave Service is general information that is objective, honest, accurate, interesting and presented without polemics.

To the full limit of our possibilities we try to broadcast this kind of information, about Swiss and international affairs, creating a parallel and genuine dialogue with our listeners. We think this is an excellent way of carrying out the task entrusted to us—to help our country to become better known abroad.

Uppermost in our minds on the threshold of 1969 is the preparation of a new programme plan and a new programme style, for we are well aware that a radio station that ignores the fantastic developments of our days is irreparably lost. Radio, including short wave radio must adjust itself to this reality.

And on the subject of programmes, I should like to pay tribute to WRTH which, year after year, faithfully and competently, provides information indispensable to all those who listen in to the world of radio.

Joël Curchod
Director
SBC'S EUROPEAN & OVERSEAS SERVICES

(1) The Swiss Broadcasting Corporation (SBC) is a non-governmental organisation operating under a charter granted by the Federal authorities. It is the sole organisation providing radio and television facilities in Switzerland. The different member-societies of the SBC guarantee proper representation for the various regions of the country. Operation of the transmitters is in the hands of the Federal Post, Telephone and Telegraph Administration (PTT).

(2) Plans are presently being developed to provide additional television programmes for viewers in each language region of Switzerland.

It is with genuine pleasure that we offer our congratulations on the occasion of the 23rd edition of the World Radio TV Handbook. The growth over the years is phenomenal and reflects the expansion of broadcasting in our time.

One of the things which makes man the dominant species on this planet is his ability to communicate. Along with this ability comes the **need** to communicate with others. Personal life, as well as national development, depends upon our communion with other people. No thought has significance unless we share it. No insight of wisdom is worth anything unless we disclose it.

Cicero made this observation: "If a wise man were granted a life of abundance of everything material so that he had leisure to contemplate everything worth knowing, still if he could not communicate with another human being he would abandon life."

The Far East Broadcasting Company has recognized the imperative of communicating a message of hope and goodwill in Asia. After over twenty years of broadcasting, FEBC-Manila now airs more than 40 hours daily on its Overseas Service, in addition to operating two Manila stations on the air 24 hours daily, plus several provincial stations in the outreaches of the Philipinnes. Three stations operate in Okinawa (just south of Japan). And KGEI, San Francisco, California, offers Latin American listeners programs of value. Total weekly program hours for all of FEBC exceeds 700.

The Far East Broadcasting Company is dedicated to highest cultural, moral and spiritual principles. Our message of hope is the Gospel of Jesus Christ as contained in God's Word, the Bible. FEBC exists for the communication of that message!

Best wishes for the future of the **WORLD RADIO TV HANDBOOK!**

Roy H. Boettcher
Foreign Services Director

In earlier years, we in New Zealand could have been excused for feeling remote from the events and happenings in the rest of the world. As a comparatively small country whose nearest neighbour is some 1200 miles away, New Zealand has had to overcome the diverse problems that come hand in hand with geographical isolation. Poorer communications in years gone by have placed New Zealand—and, of course, many other countries—at a disadvantage in keeping up with the latest advances and trends in many fields, whether scientific, cultural or simply in knowing what was generally "going on" in the world around. There has been, furthermore, a converse effect: the people of countries far removed from the South Pacific have had little idea of where New Zealand is, and many had not even heard the name at all. In some important aspects of agricultural research, New Zealand has been a world leader, spurred on by its economic dependence on agricultural exports, and there's no doubt that New Zealand's isolation was not in the best interests of those countries elsewhere in the world who have also been strongly dependent on agriculture for economic survival.

(continued page 6)

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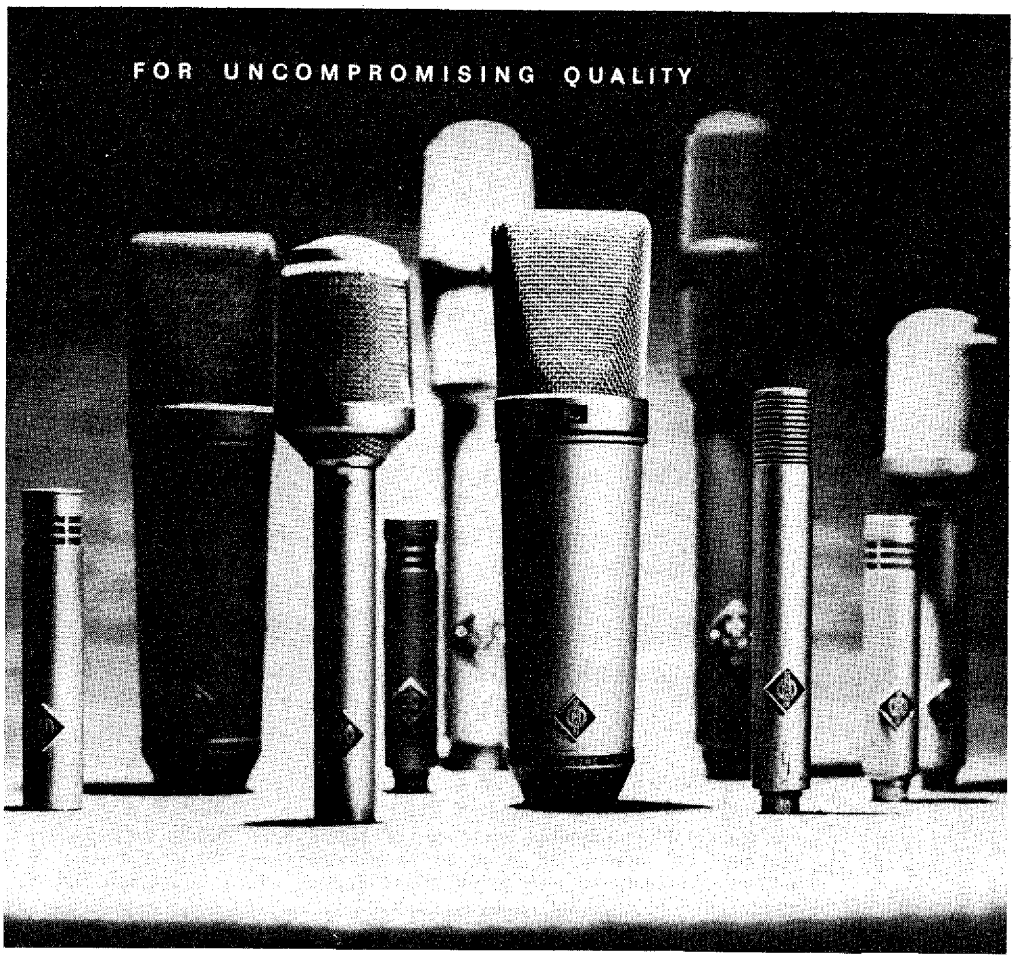

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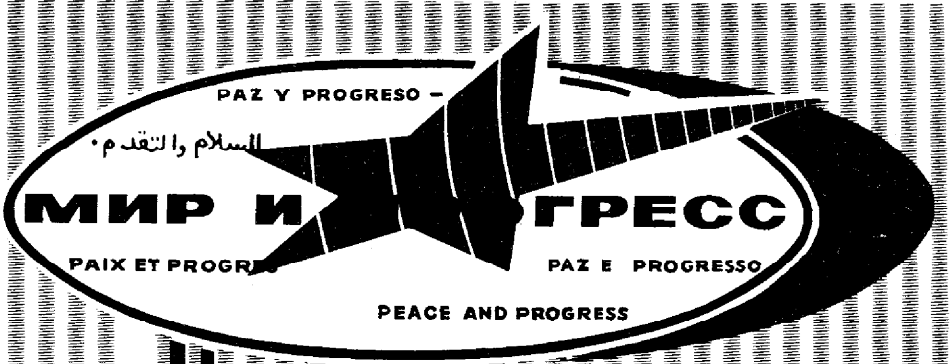

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Radio Station "Peace and Progress" is sponsored by Soviet public organizations. It broadcasts in English, French, Spanish, Portuguese, German, Hebrew, Yiddish, Guarani, Chinese and Mongolian. Programmes are beamed daily to Asia, Australia, Africa, the Near and Middle East, Latin America and Europe.

It is the aim of Radio Station "Peace and Progress" to acquaint its listeners with Soviet public opinion on vital questions, with the point of view of the Soviet people on international events, to inform them of the current events taking place in various countries and to cover the activities of international organizations.

Our address:

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We establish contacts and sign contracts with foreign broadcasting stations and information agencies to provide them with materials on political questions as well as questions dealing with the public life of our country.

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SOUTH AFRICA: South African Broadcasting Corp.
USA: The Voice of America - Radio New York Worldwide (WNYW).
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VATICAN STATE: Vatican Radio.

The Editor of the World Radio Television Handbook seeks information from all stations and organisations engaged in broadcasting and/or television and interested in international broadcasting and/or television and publishes the information as communicated to him by the stations or organisations. The Editor cannot be held responsible for the correctness of this information or for not publishing schedules and other particulars of stations which do not supply this information, or for changes in the times and wavelengths of programmes made after the current edition has gone to press.

WORLD RADIO TV HANDBOOK

RADIO TELEVISION 1969

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23rd edition

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Next Edition to be published December 1969

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Happily, many of these problems no longer exist. Communications have, of course, developed immensely; and there has also been an increasing pulling together of the resources of those intimately involved in the task of communicating—we, the broadcasters. Ideas have been pooled, information exchanged and compared, and channels for creating a greater awareness of the way others live have widened through the regular traffic of radio and television programmes.

For its part, the NZBC has been concentrating strongly on programme exchange, offering to broadcasting organisations in practically every part of the world the cream of those locally-produced radio and television programmes depicting New Zealand and its way of life. Our geographical position makes extensive shortwave broadcasting an unattractive proposition and this service is limited mainly to the Pacific Islands, Australia and New Zealanders working in the Antarctic.

The NZBC is a member of the Asian Broadcasting Union and the Commonwealth Broadcasting Conference (which it hosted early in 1968); and is also an Associate Member of the European Broadcasting Union.

Co-operation is the keyword with all these organisations —co-operation aimed at advancing the standards of broadcast communications and through this, the furtherance of international goodwill and understanding.

The vital role filled by the WRTH in this continuous process is an obvious one: it is a permanent guide and directive, an accurate and ever-ready source of information essential to the broadcaster who recognises his place in the world-wide system of information, entertainment and education. It has proved itself an invaluable standby during 23 years of publication, and as broadcasting organisations throughout the world expand and increase in numbers, WRTH will expand in importance accordingly. Its future is assured.

G. H. Stringer
Director General
New Zealand Broadcasting Corporation

If you are a professional user of the WORLD RADIO-TV HANDBOOK, this article is not intended for you: you will have your own reasons for having a copy on your desk, or on your bookshelf. No! I am writing as a practising DXer for practising DXers, some of whom will be looking at the 'Handbook' for the very first time.

One of my occupations in connection with radio is editing one of the DX bulletins which appear in a flood from the radio and DX Clubs of the World. Frequently, editors of such bulletins are asked the question: "What's the WRTH like?". Of course, it is easy to say that it is the only source from which you can obtain information regarding virtually every radio station in the world, and about the only source which provides all the information you are likely to require in the space of 300, or so, pages. Sooner or later, a new DXer who has just acquired the 'Handbook' remarks that there is so much information within its covers that he does not know where to start in absorbing it all. To that there is only one answer and that is to treat the 'Handbook' as a **working** book and not as something that sits on top of the receiver, only looked at when a difficult logging requires identification—that will only give you part of the value that lies in the 'Handbook'. The 'Handbook' is designed to be a working book and so it needs just a little work from you if you are to get real value for your money.

Have you ever sat alongside a really experienced DXer whilst he tunes through one of the bands on his radio? Have you noticed the way in which he identifies station after station, often without hearing more than a few seconds of its programming—a snatch of interval signal here: a few words of announcement there: a brief identification in some uncommon language: or even a few bars of unusual music? If you have done so, you will know that he manages to identify many more stations than you, my novice friend, would manage to log, let alone name, in the same trip through the band. How does he do it? No—he doesn't speak 20 different languages, and his equipment need not be more sophisticated than yours. What then is his secret? In a phrase—he has trained himself to listen, and to know what he is listening for. How can this be done you may ask—the answer is by study, but study which is pleasurable and in which there are no examinations which must be passed. How successful you get is purely a matter for your own choice—nobody will say: "You should have done more work". It's up to you, and you are your own examiner in the state of proficiency that you achieve.

It is not possible to prepare for any 'qualification' without a textbook and in your hands you are holding the textbook which can open the door to an undreamed-of world—the great big world in which radio stations in some 200 or more countries are waiting to be logged. However, this is a textbook with a difference: it's all pleasure! Look through the pages of the 'Handbook' and dream of the delights that you may be fortunate enough to hear coming out of your loudspeaker one day when the conditions are just right, and you are in luck. **Hearing** a station is one thing: **identifying** it is another, and stations don't repeat their announcements over and over again so that you can manage to log them (although you can achieve this happy state of affairs if you make certain that your tape-recorder—if you are fortunate enough to have the use of that invaluable machine—is always ready!). So, you've got to do your homework, and that means making the 'Handbook' your companion whenever you have a few minutes to spare.

I said earlier that the 'Handbook' is a working book and it is, too, a book that is meant to be read, not just used as a reference source. The 'rare' DX station will normally be heard as a fairly weak signal—unless you are very lucky!—and may well be using a language which is not common in your part of the World. So, you want to be ready for the snap identification of the interval signal that is half-heard through the static: you need to be ready for the sign-off that may well come just as you've got the signal well tuned in. This is where the 'homework' pays off and can mean the difference between **thinking** that you heard a particular station and being **certain** that you heard it. The 'Handbook' is meant to be used, not kept to keep the lid of the receiver propped open.

Browsing through the pages of the 'Handbook' is the only way in which you can be ready for that snap identification—BROWSE, and you will be surprised how much of the contents of the book you will absorb. This is the training for listening at which the old-hand is such a past-master. He has learnt—as you can!—the French, Russian, English, German, Italian, Portuguese, Spanish, Roumanian, Arabic and many more for "This is . . .", and recognising the language used is one step toward the identification of a station. He has learnt, too, the identification and interval signals of countless stations—yes: they are all in the pages of this book. What else has he read and stored in the deepest recesses of his mind ready to be recalled when half-heard on the air? The sign-on and sign-off times of the stations in which he is interested: the fact that Radio X **does** use (say) English for just 30 minutes a day: the main outlines of the Frequency Predictions that are to be found on other pages, and lots more besides. All this—and much more—the old-timer has read and tucked away for use some day in the future, and you can do the same whilst spending many happy hours running through the 'Handbook', perhaps whilst the DX is not too good.

(continued page 10)

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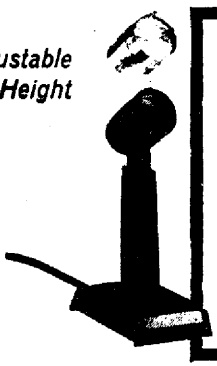

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(continued from page 6)

One day, the newcomer to the DXing hobby decides to try his luck on the Tropical Bands—the 60, 90 and 120 metre bands—and, frequently, this is where his interest in the hobby ends. Often a young DXer remarks that he can't identify a single station in those bands, and he fails to realise that he has reached the point in his DXing career which will decide whether he moves on to the most interesting part of the hobby, or not. These are, in my view, the bands where "learning to listen" is vital. Many things have to be learnt if you are to succeed in making sense out of the loggings that will be exclusively of stations which are DX (unless, of course, you live in an area where the Tropical Bands are much used). Where do you start? Broadly, the Tropical Bands are used in a belt that runs through Central and South America, the African Continent, the Indian sub-continent, and on into Asia and the Pacific area. So, as the transmissions are mainly for local communities it is vital that you start to acquire sufficient knowledge of the languages used to be able to—at least—recognise station identifications in Spanish, Portuguese, French, Arabic, Swahili, and the major languages of Asia. Then, too, you want to get a working knowledge of the time differences which occur around this world of ours. All this is in the pages of the 'Handbook', and it is pointless to list them all in an article like this. You know the areas in which you are interested and all the information is here at your finger-tips!

With those facts in your mind you are ready to start your assault on the DX that is there waiting to be heard on most days and nights of the year. But caution!—you don't know it all yet, my young friend. You've learnt your A.B.C. but you've still got to start putting the letters together into words. That station you log at 02.00 G.M.T. on the 60 metre band with an announcement in French—where does it come from? You are quite right that it is not likely to be from the African continent as most of their stations will be off the air at that time of the day: BUT, as in your country, no doubt, radio stations do stay open to report Election Results until late in the night, or they have extended schedules on Holidays and Feast Days. Keep your wits about you: read the world news, and be prepared for surprises! How do you identify my 'strange' station you ask? Well, this is where we get back to 'learning to listen', I'm afraid. If you know the station announcement, its interval signal, and from past experience recognise the kind of presentation it gives to its programmes—whether it is commercial or not: what sort of time signal it uses: how often it identifies itself and in what languages—then you are well on the way to identifying it, especially if you are clued-up on the names of the main political characters whose names are likely to be mentioned, and so on.

In this article I have tried to make the point that the secret of being a good DXer—the chap who hears the more unusual stations, identifies them correctly, and gets a QSL from them!—is not the expenditure of large sums of money on elaborate receivers and antenna systems. Those things help and it is foolish to deny that the better the receiver and antenna, the better are the chances of getting good DX. However, I am convinced that the greatest factor of all is whether the DXer has learned to listen—whether he has absorbed as much information as he can regarding the hobby he is involved in. A keen stamp-collector would expect to keep abreast of what is happening in the world of Philately: a keen Jazz enthusiast would regard it as essential to keep in touch with the latest happenings in the music world. Too many DXers regard DXing as just turning on the radio and tuning hopefully through a band—it's not quite as simple as that! If you can, get hold of one of the old-timers I mentioned before and sit with him as he tunes through a band identifying this and that. Then, ask him **how** he knows that it's Radio So-and-So—the chances are that he will show you that he's been getting "value for money" by a close study of the 'Handbook', and that, instinctively, he puts into practice the things which I have outlined above.

Maybe this sounds like a lot of work—it isn't! You have gone to the trouble of getting this copy of the 'Handbook'. Why not get full value for money from your purchase, and open the door to **real** DXing by identifying, for yourself, those weak stations that provide the real catches and are usually just audible 'through' the station you've heard many times. You'll be opening a door to a completely new area of interest, and you'll be astonished, I'm sure, at how knowledge begets knowledge and at how you'll find the 'Handbook' becoming more and more indispensable a tool in your DXing. ALAN THOMPSON,
President WORLD DX CLUB, and Chief Editor 'CONTACT'.

A technical hobby of particular interest is the reception of broadcasting programmes from all over the world. For some time I have devoted many hours to shortwave strolling, the so-called DX-ing, and I find this spare-time occupation both interesting and fascinating.

What is required to enable one to indulge in this hobby? As good a radio set as possible with shortwave range, with bandspread as an added advantage. A good aerial, which one can provide oneself for little money; and, as the most important item, the

World Radio TV Handbook

which is issued annually by the publishers in Hellerup, Denmark. The regular issues are supplemented each summer by the

Summer Supplement.

The WRTH shows accurately the transmission times, frequencies, programmes and in each particular case the languages of all important broadcasting stations of our globe. The same contains further a series of informative articles on reception conditions, sun activity, aerial design and important references to DX programmes, DX clubs, transmitting stations in international waters, religious transmissions, television, tables of medium wave stations etc.

Every newcomer will be astounded by the variety in the field of shortwave radio. On the approximately 3000 shortwave frequencies a wide choice of programmes is being transmitted. Good reception depends also on many factors, such as e.g. on sun spot activity, atmospheric disturbances, day and night time between the transmitter and the receiver.

If the news of any event of world-wide significance is heard on one's home station and later compared with the commentaries—about the same event—sent out by other stations, one will be downright amazed at the differences between the versions. At a further advanced stage of shortwave reception one proceeds to the sending of reception reports to any particular radio station. After a short time one is already in possession of an attractive collection of coloured QSL cards (confirmations of receipt) from the countries of all five continents. A certain sense of pride fills any real amateur shortwave listener if he can maintain regular contacts with as many broadcasting stations as possible.

In order to have as good a reception of shortwave as possible, the demands made upon a radio set are increased slightly as time goes on. For this reason it becomes possible gradually to set up a nice reception station. The same may, depending on one's purse, be equipped with very expensive sets, which is not at all necessary, however. Quite good successes can be achieved with a portable box receiver or one designed by oneself. The possibilities increase of course with a good shortwave receiver, thus one can for example listen to the shortwave hams, telephone services (point-to-point stations), coastal services, airports (weather reports) and secret radio stations.
Scattered all over the world there are very many clubs for the devotees to this hobby. Newssheets are published regularly, and there is a lively exchange of experiences and ideas amongst the members. In this way it is also possible to find many new friends amongst the like-minded all over the world.

One could write a great deal more to describe in detail the activities of amateur shortwave listeners, but this would go too far for an article like this one.

The **World Radio TV Handbook**—which must not be absent from any receiving station—contains all required details, which is why I can strongly recommend the same to you.

With 73's and good DX wishes
Bühler, Anthon
Luzern, Switzerland.

A MESSAGE FROM THE EDITOR

This 23rd edition of the WORLD RADIO TV HANDBOOK has been extended and kept up-to-date with the advice of specialists and consultants in the field of radio and television in order to assist **you** to obtain as complete and practical information as possible about the various radio and TV stations throughout the world.

It has been our aim with the present edition to enable everyone to have a complete and practical basis on which to start or continue listening to broadcasts (on shortwave in particular) from near and far-away countries and thus create the possibility for a better international understanding.

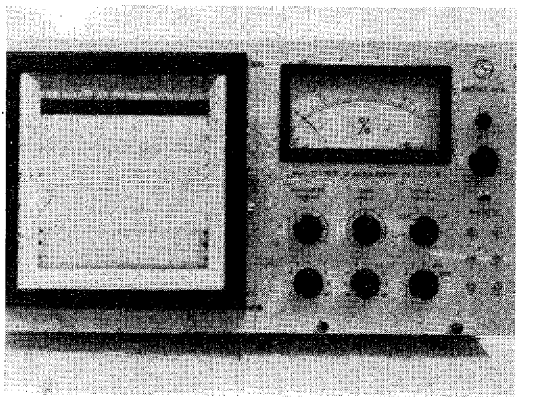
It would be impossible to list all the names of those whom we have consulted about the new material—friends who have made valuable contributions to this book. We thank them for their help and interest in our work.

I want to thank specifically the many broadcasting and TV organisations, radio clubs, advertisers, DX-ers and other individuals, who have made this edition possible.

The WRTH 1969 has been written and compiled for *you* entirely. Consequently we will be more than happy to receive your criticism and suggestions with regard to improving and extending the contents of the current edition.

J. M. Frost
Editor

PEAK MODULATION LEVEL MONITOR



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avoid excessively high levels which cause distortion in the transmission chain.
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HOW TO USE THE WORLD RADIO TELEVISION HANDBOOK

The World Radio TV Handbook is designed to help the international radio listener obtain maximum enjoyment from his receiver.

The first section of the Handbook contains instructive articles relating to broadcasting, information regarding broadcasting and television organizations, and popular technical articles and tables of practical value to listeners.

The main section of the book (pages 79-245) contains detailed information, by country, of the **Radio Stations** and broadcasting organizations of every country in the world, including names and addresses of broadcasting companies, names and titles of leading officials, lists of broadcasting stations in each country, including frequencies, wavelengths, transmitter power, call signs (if used), and station names. Program information is also listed, including times, frequencies, and beam areas of the broadcasts in each language. The announced **location** of the st., rel. st's exc., is usually the studio and administrative location, since the tr's are often located in outlying areas. — **Power** is stated in kilowatt (kW) or Watt (W). When two powers are listed, the figures represent the lower and upper limits of power, where a station uses more than one tr. on the frequency at different times (s.w.) or varies the power of the tr. for day and night operation (m.w).

A listing by frequency and wavelength of the shortwave stations of the world, and long and medium wave stations by continents is presented in the last part of the Handbook, for use in facilitating the identification of stations.

Abbreviations: See page 46 for explanation.

Short-wave stations may be used either for domestic broadcasting to listeners in the same country or for international broadcasting directed to listeners in other countries.

International short-wave stations usually employ directional antennas to beam their programs to particular areas on frequencies calculated for best reception. Most international broadcasts are scheduled for the evening hours in the intended reception area, but some are in the morning or at other times during the day. The reception areas give their names to the services: European Service (or to Europe), Far Eastern Service (or to Far East), North American Service (or to North America) etc. Languages employed are those of the listeners in the area to which the broadcast is directed, also the language of the transmitting country for reception by persons understanding that language.

Best reception is usually obtained from transmissions directed to your area. However, there is a considerable amount of overlapping between many service areas and, therefore, it is often possible to obtain good reception of programs beamed to adjacent areas, and sometimes, even of programs directed to distant parts of the world. Short-wave propagation conditions change continually because of the influence of daylight and darkness, seasonal effects and solar activity. Consequently, good reception requires frequency change from time to time.

(See articles: "Radio Broadcast Reception Conditions", "Solar Activity", on the respective pages).

Domestic short-wave stations are usually of lower power than international stations, and generally use non-directional or wide beam antennas, in order to reach local or national audiences. These stations make fewer seasonal frequency changes, and many operate on the same channel for both day and night operation. The stations are utilized to reach areas of a country where coverage by medium and long wave stations is not adequate.

The geographical Co-ordinates of the transmitter sites are given in degrees and minutes.

Long and Medium wave stations are used mainly for transmitting programs to listeners in the country in which the stations are located. These stations vary from powerful transmitters capable of being heard throughout the country to low power stations intended only for a small area in the vicinity of the transmitter.

FM (Frequency Modulation) Stations operate on very high frequencies (VHF); ranges of 88-108 MHz in the Americas and 87-100MHz in other areas, and provide interference free reception over a short radius. Most FM stations relay programs of a medium or long wave station.

Frequency and Wavelength — Frequencies are measured in kilohertz per second (kHz) and megahertz per second (MHz). One hertz (named after the German physicist Heinrich Hertz) signifies "one cycle per second" and accordingly, one kilohertz (kHz) equals one kilocycle per second (kc/s). Wavelengths are measured in meters.
A formula between frequency and wavelength is as follows:

$$\text{Wavelength (m)} = \frac{300000}{\text{Frequency (kHz)}}$$

$$\text{Frequency (kHz)} = \frac{300000}{\text{Wavelength (m)}}$$

Several broadcasting stations announce frequencies in kilocycles or megacycles. A kilocycle is 1000 cycles. A megacycle is 1000 kilocycles.

Due to the propagational conditions, interference by other stations, jamming, malfunction of transmitter, reallocation of frequencies by a country or convention, or for some other reason, stations may use frequencies which are at variance with the frequency(ies) indicated in this handbook.

Beams: The azimuth of maximum radiation of the transmitting antenna is given in degrees (clockwise) from True North, where such details are given by the respective stations.

Program times used in the listings are based on the 24 hour clock. Midnight is 00.00 hours, 3 a.m. is 03.00 hours, 9 a.m. is 09.00 hours, and midday is 12.00 hours. Then, instead of starting another 12 hour cycle (p.m.), under the 24 hour system the hours increase until midnight. Thus 3 p.m. is 15.00 hours, 10 p.m. is 22.00 hours, and so on until 23.59 (11.59 p.m.) is reached and a new 24-hour cycle starts. This system eliminates any confusion between times a.m. and p.m.

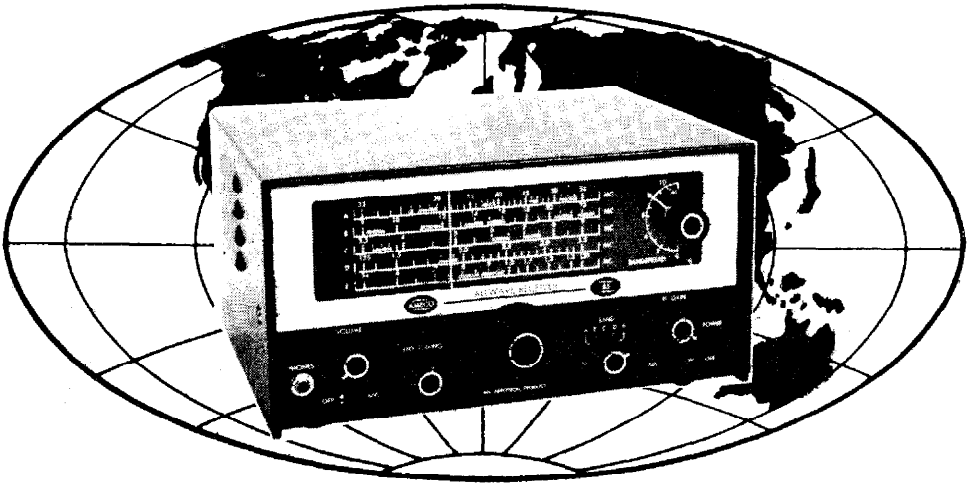
Time Conversion: All programs are listed in GMT (Greenwich Mean Time). To convert from GMT to your local time, refer to the World Time Table on page 53 to determine how many hours your time is ahead or behind GMT, and add or subtract that amount in order to convert to your clock time. For quick conversion, it is useful to write the GMT hours, 00 to 24, down on one side of a sheet of paper, and then enter the correct local time opposite each GMT hour. Summertime or Daylight Saving time, adds an hour to local time so this should be taken into account in countries where it is utilized.

Program schedules: The program schedules of many countries are divided into Home Services and Foreign Services. The Home Service programs are arranged by language and by program services or networks. The Foreign Service transmissions are generally arranged by beam area, and by language for each beam area. The times and frequencies of the programs in each language are listed together, in order to facilitate the determination of the times and frequencies of the broadcasts in each language.

(continued page 15)

AMECO NEW ALL WAVE RECEIVER

MODEL R-5



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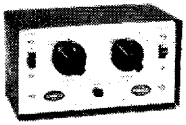
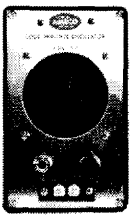
- *Includes 30 to 50 mc. police bands*
- *Includes 6 meter ham band*
- *Includes Beat Frequency Oscillator*
- *Fully Transistorized*
- *AC and portable**
- *Noise limiter*
- *Band Spread*

*optional



PREAMPLIFIER

CONVERTER



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(continued from page 13)

Therefore, if you wish to hear a broadcast in a particular language from a country, refer to the listing for the country of the time and frequency of broadcasts in that language. Most broadcasts are transmitted on more than one frequency, so try the various frequencies listed, to determine which one is received best at your location!

Identification of Stations: Most stations in Europe, Middle East, Africa and Asia identify by announcing their station name and location. Most stations in North America and Pacific (incl. Australia/New Zealand) identify by the use of a call sign of 3 to 5 letters of a combination of letters and figures, of which the first, or first 2, denote the nationality in accordance with the international list of prefixes. Most stations in Latin America use a call sign (sometimes not frequently announced), a station name, and location.

In addition, many stations use musical interval signals at sign on and between programs, in order to help listeners to find the station on their dial and identify it as the desired station. These interval signals are included in the country listings.

How to identify a Station by Frequency or Wavelength: When you hear a station that is unknown to you, first try to determine some clue to its identity by attempting to determine the language, noting the type of program, etc. Then, note the approximate frequency or wavelength indicated on your dial, and turn to the table "Short-wave Stations of the World" in the back of the Handbook, and ascertain what stations operate in that vicinity. Next, check the program listings to determine which of the stations are scheduled to operate at that time of day, and which are most likely to be audible at your location, depending on the power and distance away. For definite confirmation, it is desirable to wait for station announcement or interval signal.

Frequency Changes: The frequencies listed are those which were scheduled for use at the time of publication. However, due to a number of reasons, including interference and changes in propagation conditions, it may be necessary for a country to make frequency changes. Often only one of the frequencies on a program will be changed, so the new frequency can be determined by tuning in the other frequencies and listening for the announcement of the frequencies being used. Reference to a publication listing the latest frequency changes for the International Stations: the **Summer-Edition to the WRTH** (published by mid-June each year).

Interference: Due to the present crowded condition of the medium and short wave broadcasting bands, interference may be encountered from other stations operating on the same or closely adjacent frequency. In addition to interference from other broadcast stations, there may also be interference from "Jammers", which transmit a variety of noises in an attempt to prevent certain foreign broadcasts from being heard in the country operating the jammers. When interference is encountered, try another of the listed or announced frequencies, if several are in use, or try a broadcast at another time.

Reception from Hard-to-Hear Countries: If you wish to hear a station or program from a particular country, refer to the listing from that country, determining first whether it has any broadcasts beamed towards your area or adjacent areas, if not, refer to the frequency, time and power listing to determine where and when reception might be possible. Also, note the bands and times when stations in other countries in that part of the world are audible. It is possible to hear many far distant stations, even if they do not beam programs to your area, by listening when the propagation and clearness of channel conditions are favourable.

Verification by QSL-cards: As indicated in the program listings for the various countries, many stations are interested in receiving reports from listeners about their transmissions. These stations acknowledge reports by sending listeners a QSL-card (verification) or letter. Most **international** broadcasting stations do not require enclosure of return postage and will reply with a QSL card or letter. **Domestic** broadcasting stations do not normally request reports from foreign listeners, so return postage should be sent with reports to these stations. Return postage should be sent in the form of an International Reply Coupon (IRC), obtainable at post offices in most countries. Reports should be sent to the station address given in the country listings. They can be written in English in most cases, but Spanish is preferred by South and Central American stations.

Reception reports are useful to radio engineers in selecting the most suitable frequencies for broadcasts beamed to your area. Reports are preferred in the SINPO code, which is as follows:

S (Signal Strength)	I (Interference)	N (Noise)	P (Propagation Disturb)	O (Overall Merit)
5 excellent	5 nil	5 nil	5 nil	5 excellent
4 good	4 slight	4 slight	4 slight	4 good
3 fair	3 moderate	3 moderate	3 moderate	3 fair
2 poor	2 severe	2 severe	2 severe	2 poor
1 barely aud.	1 extreme	1 extreme	1 extreme	1 unusable

Information about **Television Stations** is provided in the section following the radio section, including names and address of Television companies, location, power and channel of Television stations, and program schedules of these stations.

With reference to the first Television page we give a short explanation of some of the technical words and figures mentioned—The announced **location** of the station is usually the studio location, since most TV tr's are situated upon the highest location in the area in order to obtain more widespread coverage — Two systems of **modulation** are used to transmit the audio signal of the TV st's either frequency modulation (FM) or amplitude modulation (AM). All video transmissions are normally amplitude modulated — **Polarization** signals are horizontally polarized (H) or are vertically polarized (V). Polarization is usually selected according to the need for a reduction of interference with other stations, or to obtain engineering standards required by the government of the country in which the st. is located — The **band width** is shown in MHz and represents the limits within which both the video and audio tr. are contained — **Number of lines** transmitted express the number necessary to form one complete frame or picture, and **frames** state the number of times per second the picture area is completely scanned — **Video and Audio Power** is indicated in kilowatt (kW) or Watt (W). In the most cases the figures denote the effective radiated power (ERP) due to the stations antenna system — **Video and Audio Frequency** is stated in MHz per sec. The relationship between the quoted figures and the limits of the video band varies among countries and can be determined by reference to the standards of the systems used by the respective countries.

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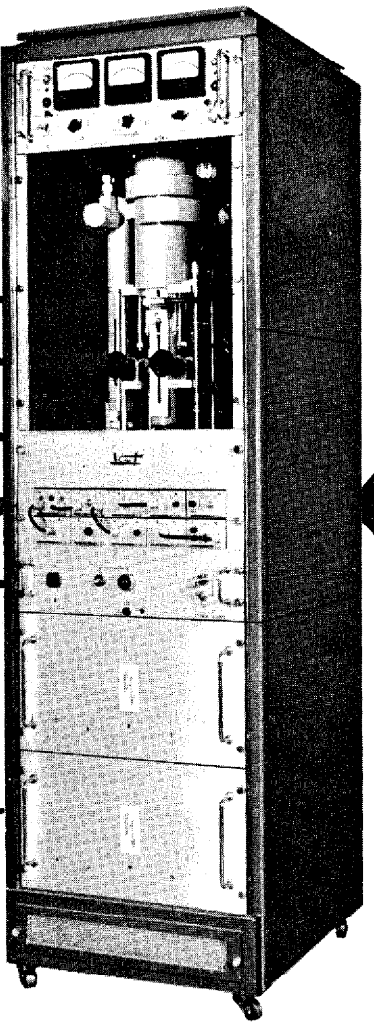
From 100 mW. to 1.5 kW transistorised up. to 10 W. FM. and 5 W TV



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EUROPEAN BROADCASTING UNION (EBU)
UNION EUROPEENNE DE RADIODIFFUSION (UER)
EUROVISION

Seat, Administrative Office, Department of Legal Affairs: 1, rue de Varembé, CH-1211 Geneva 20, Switzerland.
Technical Centre: 32, av. Albert Lancaster, Brussels 18, Belgium.
Receiving and Measuring Station: Jurbise (Belgium).
Eurovision Control Centre: Palais de Justice, Brussels, Belgium.
Administrative Council: President: J. B. Broeksz, NTS-NRU (Netherlands), Vice-Presidents: W. Hess (ARD, German Fed. Rep), Dr. I. Pustisek (JRT, Yugoslavia).
Administrators: Representatives of broadcasting organisations in: France, Germany (Fed. Rep.), Italy, Netherlands, Norway, Spain, Sweden, Switzerland, Tunisia, United Kingdom (BBC) and Yugoslavia.
Directors: Director, Administrative Office: H. Hahr. **Director of Legal Affairs:** G. Straschnov. **Director of Technical Centre:** G. Hansen.
Active Members: Broadcasting organizations in: Austria, Belgium, Denmark, Finland, France, German Fed. Rep. (ARD, ZDF), Greece, Iceland, Ireland, Israel, Italy, Lebanon, Luxembourg, Monaco, Netherlands, Norway, Portugal (ENR, RTP), Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom (BBC, ITA/ITCA), Vatican State, Yugoslavia.
Associate Members: Broadcasting organizations in: Algeria, Australia (ABC, Federation of Australian Commercial Television Stations), Brazil (Associação Brasileira de Emisoras de Rádio e Televisão, Diarios Associados Ltda, Emissoras Unidas de Rádio e Televisão), Canada (CBC), Ceylon, Chad, Congo (Kinshasa), Costa Rica, Cyprus, Dahomey, Gabon, Ghana, Honduras, Iran, Ivory Coast, Japan (NAB, NET, NHK, NTNC, TBS), Kenya, Kuwait, Liberia, Malawi, Malta, Mexico, Morocco, New Zealand, Niger, Nigeria, Pakistan, Peru, Rep. of South Africa, Rhodesia, Tanzania, United States (ABC, CBS, NAEB, NBC, NET, Time-Life Broadcast Inc., US Information Agency), Upper Volta, Venezuela.
Publications: EBU Review — every month in English and French, published in two separate parts: A (Technical) and B (General and Legal) — Lists of European stations (long and medium waves, VHF sound broadcasting, and television) — General, Legal and Technical Monographs — Reports of seminars on educational television.

INTERNATIONAL RADIO AND TELEVISION ORGANISATION (OIRT)

Addr: 15, U Mrázovsky, Prague 5, Czechoslovakia. **Cable:** Interadif, Praha.
Nature: International Organization dealing with practical and theoretical questions connected with broadcasting and television prgr's and technique and cooperation between broadcasting and television organizations.
Governing Body: General Assembly consisting of one representative for each active member.
Administrative Council: Consisting of 7 to 13 members. Acting Chairman for 1968-69: Reginald Grimmer, First Vice-President of the State Broadcasting Committee of the German Democratic Republic. Vice Chairman for 1968-1969: B. Nonev, General Director of the Bulgarian Radio and TV, and a representative of the UAR Broadcasting Corporation.
Members: Bulgarian People's Rep, Chinese People's Rep, Czechoslovak People's Rep, German Democratic Rep, People's Rep. of Hungaria, People's Dem. Rep. of Korea, United Arab Rep, Union of Soviet Socialist Rep, Moldavian SSR.
OIRT-Members: Radio and Television Organizations of: People's Rep. of Albania; Algeria, Belorussian SSR; People's Rep. of Bulgaria; Chinese People's Rep; Rep. of Cuba; Czechoslovak People's Rep; United Arab Rep; Estonian SSR; Finland; German Democratic Rep; Hungarian People's Rep; Iraq; Korean People's Democratic Rep; Latvian SSR; Lithuanian SSR; Rep. of Mali; Moldavian SSR; People's Rep. of Mongolia; People's Rep. of Poland; Rumanian Socialist Rep; Sudan; Ukrainian SSR; Union of Soviet Socialist Rep; People's Democratic Rep. of Vietnam.
Facilities: Administrative Office and technical Centre, Prague, Czechoslovakia.
Specialised Commissions: Technical Commission: Chairman: Z. Zherkov (Bulgarian People's Rep.). Radio Prgr. Commission: Chairman: W. Sokorski, President of the Polish Radio and TV Committee. Television Prgr. Commission and Intervision Council: Chairman: G. A. Ivanov, Vice-President of the Radio and TV Committee of the Council of Ministers of the USSR.
Publications: Review of the International Radio and Television Organization (OIRT) "Radio and Television" in English-French, Russian and German, issued every two months. Monthly OIRT Information, and quarterly Catalogues: radio prgr's suitable for exchange.
Meetings: General Assembly every two years. Administrative Council every year.
Relations with all important organizations active in the field of radio and television.

INTERNATIONAL TELECOMMUNICATION UNION

Addr: Place des Nations, 1211 Geneva 20, Switzerland. **Te:** 347000, 348000. **Telex:** 23000.
Secretary General: Mohamed Mili. Vice Secr. Gen: Richard Butler.
International Frequency Registration Board (IFRB)
Chairman: Abderrazak Berrada **Vice-Chairman:** Taro Nishizaki.
Intern. Tel. & Tel. Consultative Committee (CCITT).
Dir: J. Rouvière, France.
Intern. Radio Consultative Committee (CCIR). Director: Mr. Jack W. Herbstreit; Study Group X (broadcasting), Chairman: A. P. Walker, USA; Study Group XI (television), Chairman: E. Esping, Sweden; Study Group XII (Tropical Broadc.), Chairman: Chaman Lal, India.
Administrative Council: Algeria, Argentina, Australia, Brazil, Canada, China, Dahomey, Ethiopia, Federal Rep. of Germany, France, India, Ireland, Italy, Japan, Lebanon, Malagasy Rep, Mexico, Morocco, Nigeria, Pakistan, Poland, Saudi Arabia, Switzerland, Uganda, United Kingdom, United States of America, USSR, Venezuela, Yugoslavia.
Membership (135 members as at 21 August 1968): Afghanistan, Albania (People's Rep. of), Algeria (Dem. and Popular Rep. of), Saudi Arabia (Kingdom of), Argentine Rep, Australia (Commonwealth of), Austria, Barbados, Belgium, Bielorussian SSR, Burma (Union of), Bolivia, Botswana (Rep. of), Brazil, Bulgaria (People's Rep. of), Burundi (Kingdom of), Cambodia (Kingdom of), Cameroon (Federal Rep. of), Canada, Central African Rep, Ceylon, Chile, China, Cyprus (Rep. of), Vatican City State, Colombia (Rep. of), Congo (Dem. Rep. of the), Congo (Rep. of the) (Brazzaville), Korea (Rep. of), Costa Rica, Ivory Coast (Rep. of the), Cuba, Dahomey (Rep. of), Denmark, Dominican Rep, El Salvador (Rep. of), Terr's represented by the French Overseas Post and Telecomm. Agency, Ecuador, Spain, USA, Ethiopia, Finland, France, Gabon (Rep.), Ghana, Greece, Guatemala, Guinea (Rep. of), Guyana, Haiti (Rep. of), Upper Volta (Rep. of), Honduras (Rep. of), Hungarian People's Rep, India (Rep. of), Indonesia (Rep. of), Iran, Iraq (Rep. of), Ireland, Iceland, Israel (State of), Italy, Jamaica, Japan, Jordan (Hashemite Kingdom of), Kenya, Kuwait (State of), Laos (Kingdom of), Lebanon, Lesotho (Kingdom of), Liberia (Rep. of), Libya (Kingdom of), Liechtenstein (Principality of), Luxembourg, Malaysia, Malawi, Maldive Islands, Malagasy Rep, Mali (Rep. of), Malta, Morocco (Kingdom of), Mauritania (Islamic Rep. of), Mexico, Monaco, Mongolian People's Rep, Nepal, Nicaragua, Niger (Rep. of the), Nigeria (Federal Rep. of), Norway, New Zealand, Uganda, Pakistan, Panama, Paraguay, Netherlands (Kingdom of the), Peru, Philippines (Rep. of the), Poland (People's Rep. of), Portugal, Spanish Provinces in Africa, Portuguese Overseas Provinces, Syrian Arab Rep, United Arab Rep, Federal Rep. of Germany, Federal Socialist Rep. of Yugoslavia, Ukrainian SSR, Somali Rep, Rhodesia, Roumania (Socialist Rep. of), United Kingdom of Great Britain and Northern Ireland, Rwanda (Rep. of) Senegal (Rep. of the), Sierra Leone, Singapore, Sudan (Rep. of the), South Africa (Rep. of) and Territory of South West Africa, Southern Yemen (People's Rep. of), Sweden, Switzerland (Confederation), Tanzania (United Rep. of), Chad (Rep. of the), Czechoslovak Socialist Rep, Territories of the USA, Overseas Terr. for the International relations of which the Gov. of the UK are responsible, Thailand, Togolese Rep, Trinidad and Tobago, Tunisia, Turkey, Union of Soviet Socialist Rep, Uraguay (Oriental Rep. of), Venezuela (Rep. of), Vietnam (Rep. of), Yemen, Zambia (Rep. of).

UNESCO

(United Nations Educational, Scientific and Cultural Organisation).
Addr: Place de Fontenoy, Paris 7, France.
L.P: Dir. Gen: René Maheu. Asst. Dir. Gen. for Communication: Tor Gjesdal.
OFFICE OF PUBLIC INFORMATION:
Radio and Visual Information Division: Chief: H. R. van Stuwe. Deputy Chief: Gerald S. Wade — Regional Units: Anatoli Bolgarev (Russian language production), Jean Calvel (French language production), Rex Keating (English language production), Luis Lopez Alvarez (Spanish language production). Film and TV Officer: Jean S. Bhownagary.
MASS COMMUNICATION DEPARTMENT: Dir: William Farr. Division of Development of Mass Media: Dir: Pierre Navaux. Division of the Use of Mass Media for Out-of-School Education: Chief: Henry R. Cassirer.

UNION OF NATIONAL RADIO AND TELEVISION ORGANISATIONS OF AFRICA (URTNA)

Headquarters (Administrative and Programme Exchange Center): Boite Postale 3237 (or 101, Rue Carnot), Dakar, Sénégal. **Te:** 210-18. **Cable:** URTNA, Dakar.
Technical Center: Boite Postale 39 (or 8, Avenue de la Marne), Bamako, Mali. **Cable:** URTNA, Bamako.
L.P: Pres: D. Amiot-Priso (Cameroon). Vice Pres: G. Sidikou (Niger) Secr. Gen: M. Bassiouni (Sénégal). Dir. of Technical Center: A. H. Antar (Mali). Administrators: Representatives of the Broadcasting Organisations in Cameroon, Chad, Congo-Brazzaville, Ghana, Ivory Coast, Niger, Nigeria & Sénégal).
Publications: A quarterly Newsletter.
URTNA consists of full and associate members, hence the difference lies with the elegibility for membership.
Full Members: each independent African State may be represented by its National Radio and Television Organisation, which enjoys full membership. African Countries fighting for independence and recognized by the organisation of African Unity may be admitted as full members.
Associate Members: a non-African National Radio and Television Organization may be admitted in the Union as an associate member.
Administrative Council: the Common practice in other Broadcasting Unions is that one seat on the Administrative Council belongs as of right to the full member of the Country where the seat of the Union is established, however, in URTNA one seat belongs to Sénégal where the seat of the Union is, and one to Mali where the seat of the Technical Center is.
Official languages: Arabic, English, French.

(continued page 19)

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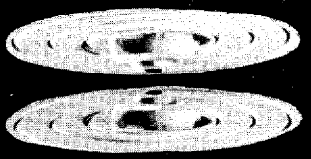

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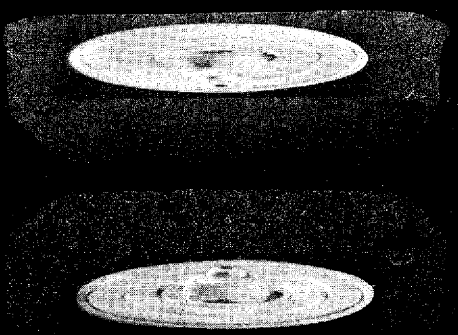
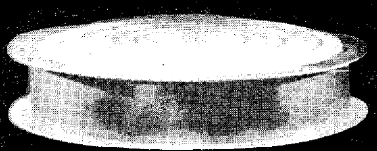


result...



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(continued from page 17)

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Vice-President: G. H. Stringer, Director General, New Zealand Broadcasting Corporalon;
Administrative Council: Radio Afghanistan, Australian Broadcasting Commission, Broadcasting Corporation of China, Nippon Hoso Kyokai, Korean Broadcasting System, Radio/TV Malaysia, New Zealand Broadcasting Corporation, Radio Thailand, Turkish Radio and TV Corporation.
Secretary-General: Sir Charles Moses C.B.E.

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The ABU is a Union of national broadcasting organisations in the Asian/Pacific region which was formally established on 1st July, 1964, following five Asian Broadcasters' Conferences held between 1957 and 1963 in Tokyo, Kuala Lumpur and Seoul. The first annual General Assembly of the ABU was held in Sydney in November 1964 and was attended by delegations from 27 members. Succeeding General Assemblies were held as follows: 1965, Tokyo; 1966, Taipei; 1967, Singapore; 1968, New Delhi. Administrative Council meetings, the first of which was held in Tokyo in June 1966, have been held successively in Tokyo, Taipei, Bangkok, Singapore, Seoul and New Delhi.
Publications: ABU Newsletter (Monthly in English).

UNITED NATIONS
Addr: United Nations, New York 10017, USA.
L.P: Asst. Secr. Gen. for Public Inf: A. A. Hamid. Director of Radio and Visual Sces. Div: Jean D'Arcy. Dep. Dir: D. Ritchie. Chief of Operations and TV: M. Hayward. Operations Mgr: J. C. Nichols.
Regional Units: Chief of Radio Sces: P. Jankowski. Latin American-Iberian Sces: J. Quijano. East European Sce: H. Murzin. French and West European Sce: G. Lauzun. S. E. European Sce: Mrs. Halman, Mrs. Teodorovic. S. E. Asia Sce: G. Farid. East Asia Sce: M. Peng. Arabic and Middle East Sce: A. Hamdy. African Sce: S. Rowe.
For the broadcasting schedule of United Nations Radio please refer to United Nations (USA & Switzerland).

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Associate Member: Radio Hong Kong.

Established in 1945, the Conference is a standing association of the national public service broadcasting organizations which are responsible for the planning and presentation of the broadcast programmes of independent Commonwealth countries. Holding in common the belief that broadcasting is a public trust, the member organizations are professionally committed to the establishment and extension of national radio and television services as a means of information, education and entertainment. The principal purpose of the Conference is the professional improvement through collective study and mutual assistance, of the broadcast programmes of the member organizations, and of the technical facilities for their transmission and reception. The intensified and sustained training of professional broadcasting staff, in the fields both of programming and engineering, in support of these ends, is a continuing practical concern of the Conference which, at its Sixth Meeting (Nigeria, 1965) established a permanent Study Group on Training to further this work.

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The Seventh Conference was held in New Zealand from 20th February to 6th March 1968, and made a particular study of the educational responsibilities of national broadcasting.
The Eighth Conference will meet in Jamaica in April 1970.
Secretariat Address: Broadcasting House, London, W.1, England.

UNIVERSITE RADIOPHONIQUE ET TELEVISUELLE INTERNATIONALE (U.R.I.)
Addr: 116 Ave. du Pres. Kennedy, Paris 16è, France – **L.P:** Pres. M. R. Dovaz. Secr. Gen: A. Lanoux — Radio Commission: Dr. H. Wicht (Germany); A. Diack (Sénégal); J. Kleibl (Czechoslovakia) – TV Commission: E. Haas (Switzerland); P. Bokor (Hungary); P. Gonelli (Italy).

INTERNATIONAL BROADCASTERS SOCIETY (IBS)
Secretariat: 78 Zwaluwlaan, Bussum, the Netherlands. (Tc: 02159-10005 — **Office for USA:** 380 Lexington Avenue, Suite 303, New York City, N.Y, U.S.A. 10017 (Tc: 212 — MU 2-4500).
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i) Corporate, (ii) Personal and (iii) Free exchange. **Corporate** membership is open to every radio and television station in the world as well as related industries. **Personal** membership is open to anyone in any way concerned with radio and or television broadcasting. **Free Exchange Membership** is offered to every association and federation in the world in any way concerned with serving broadcasting interests. **Governing Body:** The IBS is governed by a Board of Directors elected by the membership. There are sixteen seats on the Board.
Relations: The Society has registered members from more than a hundred nations, including an exchange of memberships with a number of national and international associations.
Status: The society is registered with l'Union des Associations Internationales, in Brussels, as a non-governmental and non-legislative organization. The Society is a legal corporate body under the laws of the Netherlands.

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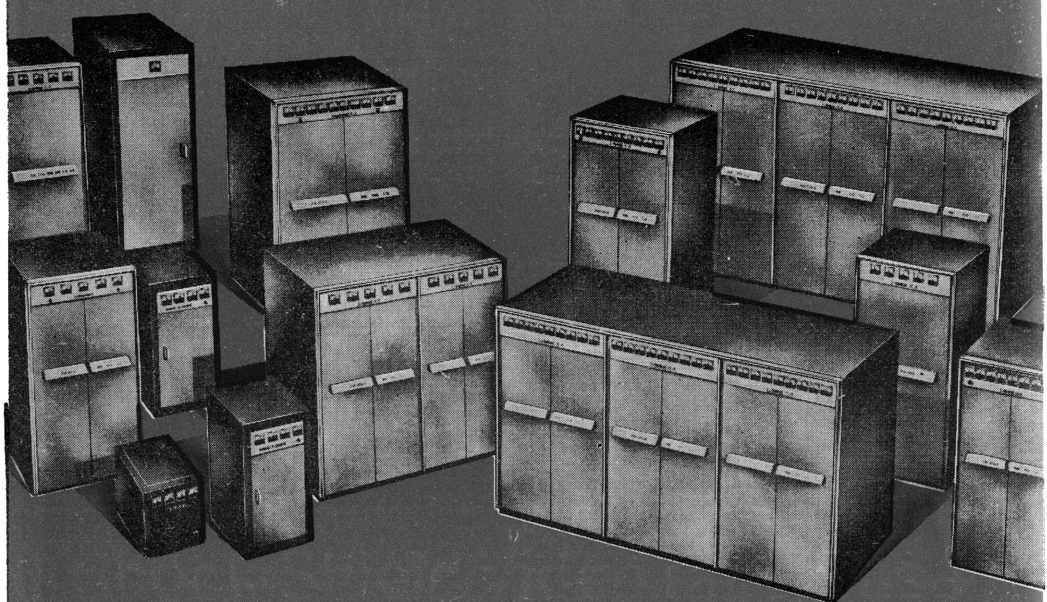

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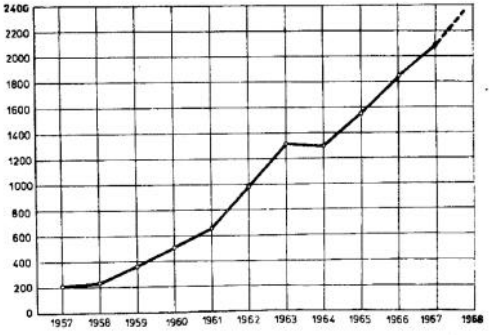
EUROVISION IN 1968

By J. Treeby Dickinson, Chief Engineer, Technical Centre of the E.B.U.

It has become customary, in these annual reports on the evolution of Eurovision, to begin by noting the number of international television transmissions planned and supervised by the E.B.U. during the year in question. Inevitably such figures tell only part of the story, as in parallel with the increase in the scale of Eurovision activity, there has been a continuous widening of its scope, as new facilities have become available—the spectacular development of communication satellites is perhaps the most significant of them. Each year one wonders how far we are from saturation, and readers may be interested to study the graph, reproduced here from the E.B.U. Review, showing the trend of the number of transmissions since the early days of Eurovision (Figure 1). This graph is not a purely academic exercise. The E.B.U. has to be prepared to meet its Members' requirements for transmissions of all kinds, notably for the growing accent on news transmissions—although there are now two general exchanges of news daily, short-notice "flash" news-items still frequently occur.

Growth of the annual number of Eurovision transmissions
Figure 1.



The Eurovision Control Centre (EVC) in the Law Courts in Brussels is now causing serious concern. It is true that the centre, which was initially built and equipped in 1955, has several times been enlarged and its equipment has been continuously improved and extended, and thus adapted to the changing operational requirements—most recently to cover monitoring and measurements for the PAL, SECAM and NTSC colour systems. In addition, work is proceeding on the design of an automatic-telephone installation to ensure a more rational utilisation of the leased network, but a satisfactory solution must await the transfer of the EVC to a tower now being built at the new Production Centre of the R.T.B./B.R.T. in Brussels, which will become the nodal point of the television radio-relay system. There, in much more spacious accommodation, it will be possible to arrange the equipment much more conveniently and at the same time to provide more comfort for the staff.

Regarding the Eurovision Network itself, and although it had little, if any, effect that could be seen immediately by the ordinary viewer, one of the most important developments took place on 1st January, 1968 when an agreement for the lease on an annual basis of some of the most frequently used international vision circuits came into effect, hitherto all international vision circuits having been rented individually for each transmission. The benefits from the new arrangement, the first of its kind in the world, are twofold. First, the continuous availability of these circuits obviates any risk of unnecessary delay in the transmission of "flash" news items. The centralised system of allocating circuits provides immediate knowledge of the availability of each of them, without the necessity to confirm all bookings with the national Telecommunication Administrations in advance. Secondly, the financial advantage is that increased utilisation entails additional charges only for any extension circuits which may be needed. It also makes it possible to arrange regular complete measurements and adjustments of the circuits, instead of the short tests which are all that can be done when circuits are leased for each transmission individually.

This network of circuits, commonly known as the Eurovision Permanent Vision Network, is illustrated in Figure 2. It can be seen that it connects most of the points which were already reached by the sound-programme circuits forming the Eurovision Permanent Sound Network. Most sections of the two Permanent Networks thus provide high-quality facilities for television programme transmissions, due to the test transmissions that can now be performed at no extra charge. The experience which has already been obtained with the Permanent Vision Network has demonstrated its value, and plans for its extension, where the rate of utilisation justifies it, are already under discussion.

A new facility which became available during 1968 was a vision junction in each direction between the West German and Czechoslovak networks, thus providing a very convenient link between the Eurovision and Intervision networks.

As in earlier years, the programme category which accounted for the longest global circuit-time in 1968 was sport. The main events were, of course, the Olympic Games; first the Winter Games at Grenoble and in October, the Summer Games in Mexico. In both cases, a high proportion of the transmissions was in colour: about 56% in the case of Grenoble and about 85% in the case of Mexico City. Both operations involved transcoding, the Grenoble Games having been originated in SECAM colour and the Mexico City Games in NTSC colour, whereas the general distribution over the Eurovision Network has to be in PAL colour. The number of sound transmissions from these events also set new records; Figure 3 shows some of the equipment used at Grenoble for this purpose.

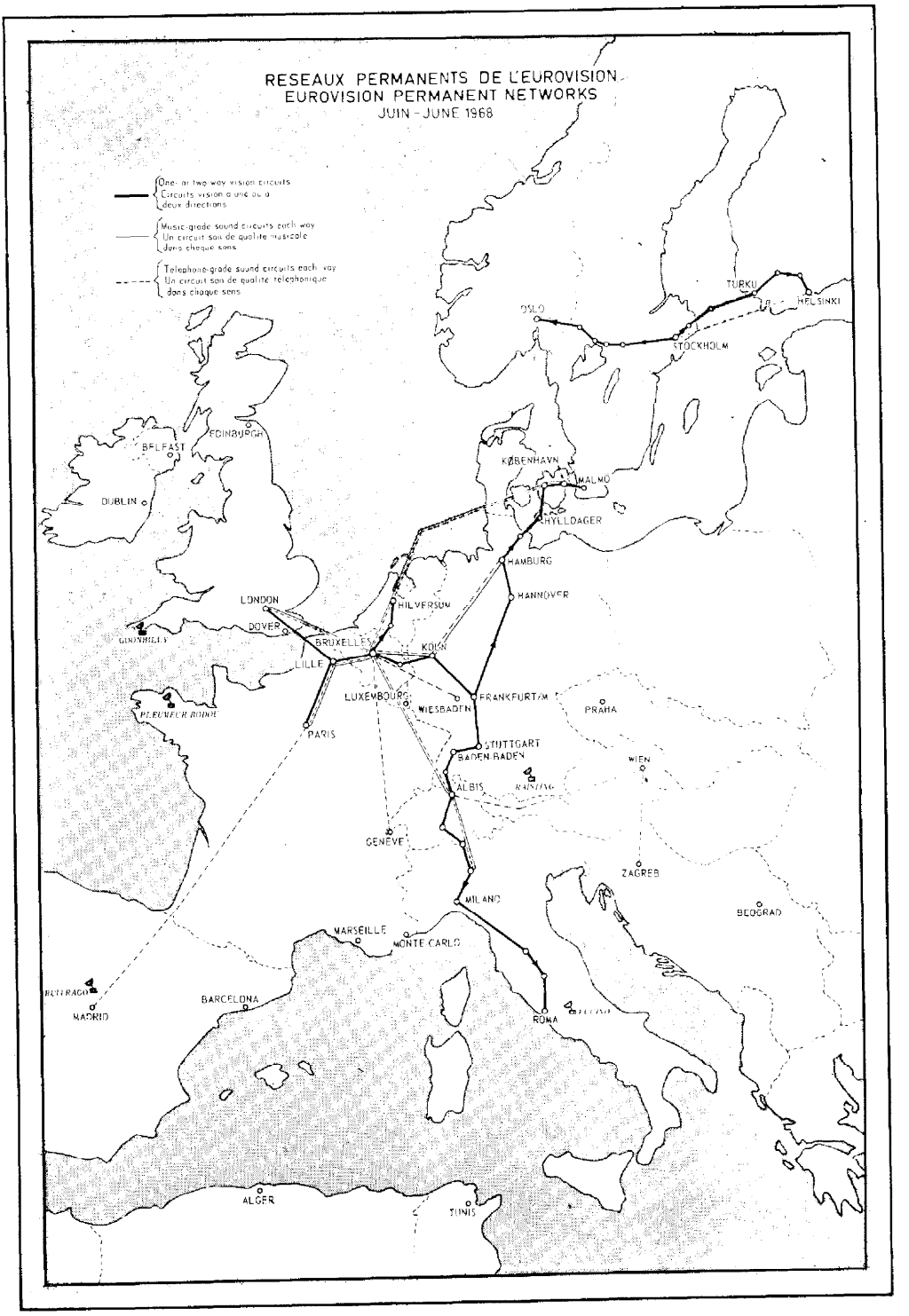
Broadcasts of professional sporting events too, were also distributed widely, cycling and football being the most popular.

Probably the most widely-received transmissions of a single non-sporting event were those of the coverage in colour of the Pope's visit to Colombia in August, managed jointly by E.B.U. Members: the T.V.E. and the RAI, with the assistance of the Instituto Nacionale de Radio y Televisión of Colombia. This involved the use of a transportable Earth-station with a 5-metre aerial installed near Bogotá, and a colour outside-broadcast vehicle belonging to the RAI. These transmissions were the first to be broadcast in Europe live from South America, the satellite used being ATS-3.

Large audiences were also reported for many of the specially produced entertainment programmes making use of the Eurovision facilities on a large scale. The best-known of these, of course, is the Eurovision Song Contest, which was held in London this year, and which was won by the T.V.E., in an excitingly close finish.

(continued page 23)

EUROVISION 1968



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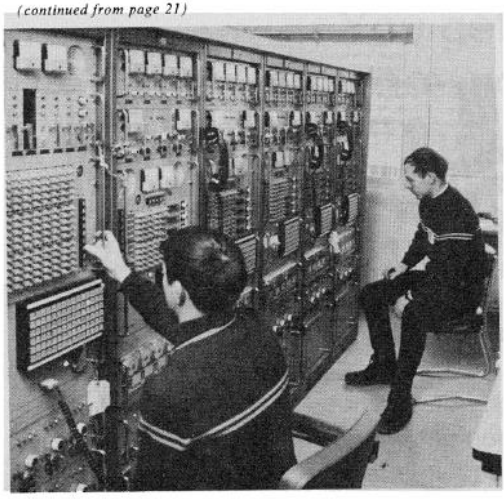

Sub-centre catering for 25 commentators at the Winter Olympic Games at Grenoble.

Perhaps the most remarkable feature of 1968, as far as Eurovision was concerned, was the increase in the daily news-exchange operation (see Figure 4). Much of this was due to the large number of newsworthy events, among which the most outstanding must be the strikes in France in May and the invasion of Czechoslovakia in August. In both cases, the immediacy of the pictures distributed by Eurovision—sometimes at considerable personal risk to the staff of the originating services—was highly appreciated by viewers, and it would not be an exaggeration to say that the course of events was influenced by the visual impact of these transmissions. The significance of the existence of the Permanent Networks in the efficient coordination of these exchanges has already been mentioned; the following statistics in all classes of programmes indicate how great the increase has been.

During 1967, 2086 transmissions were coordinated by the E.B.U. Technical Centre; this represents an increase of 13% over the previous year, and the total duration was 1190 hours, an increase of approximately 4%. Figures for the whole of 1968 are not available at the time of writing, but during the first six months of this year, 1402 transmissions with a total duration of 815 hours have been coordinated, corresponding to increases of 72% and 51%,

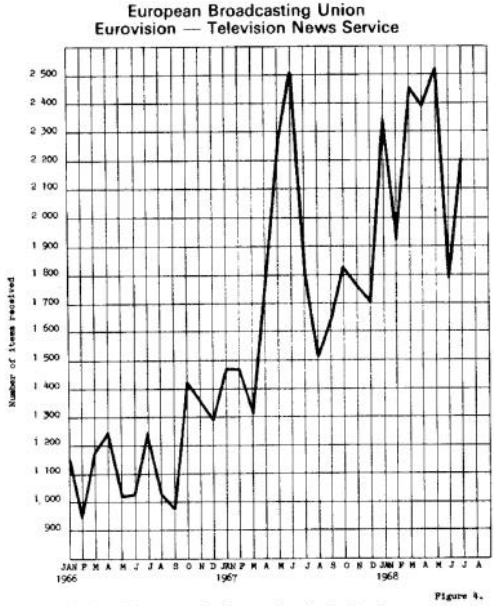

Figure 4.

respectively. These totals do not include the figures for the regular Daily News Exchange, which has taken place twice daily since the start of 1968. In 1967, 2009 news items were distributed, each being taken by an average of 10.5 television services. In the first six months of 1968, the number of items distributed reached 1243.

It is now generally recognised that Eurovision, although remaining essentially European in spirit, has extended its scope to practically the whole of the world, to say nothing of its brief excursions into outer space. Our efforts over the next few years will be concentrated on the task of providing immediate television coverage of news and topical events, whenever and wherever they may occur. This will require the solution of formidable problems on the technical plane, not only in transmitting the programme signals, but also in getting the cameras to work at the right place at the right time, which implies the use of much handier and more quickly installed camera equipment than as yet generally available. How the technique of communication satellites will be exploited to solve the transmission problem is related in another article in this Handbook.

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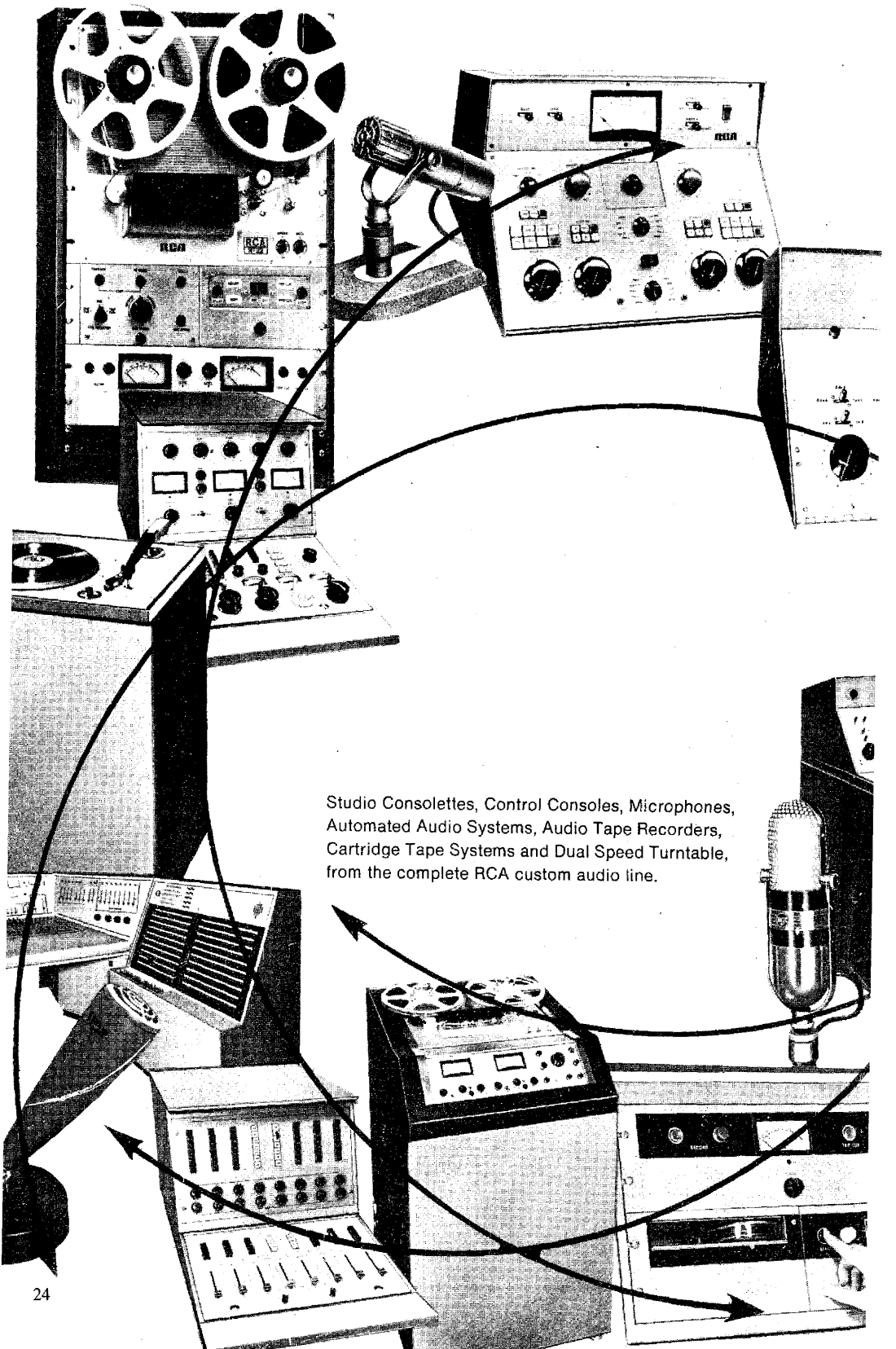

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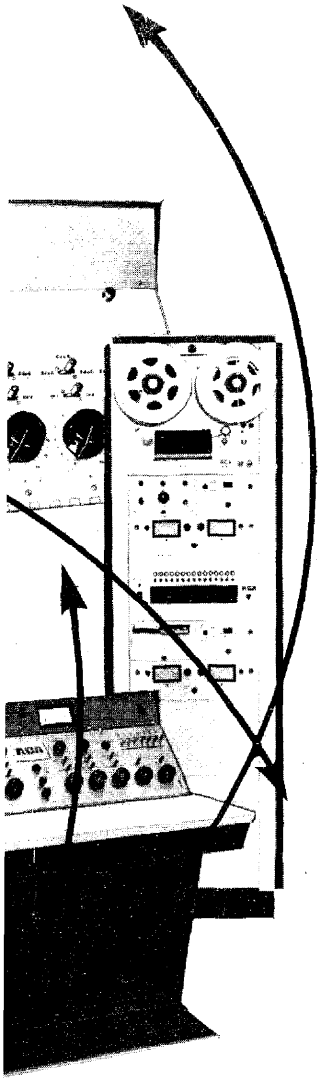

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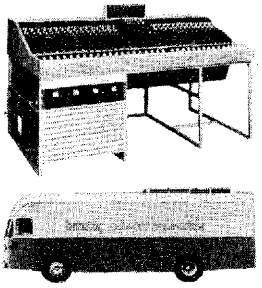

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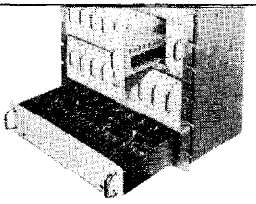

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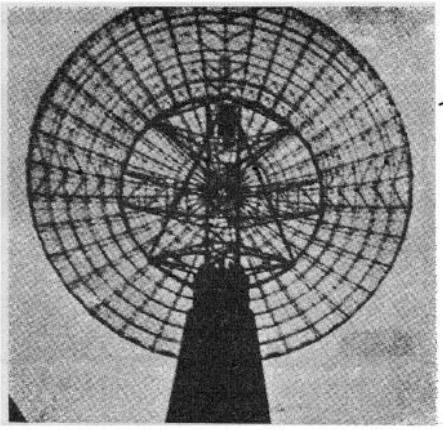

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SOLAR ACTIVITY IN 1969

by Prof. Dr. M. Waldmeier, Zurich.

In 1966 we had issued a prediction for the forthcoming maximum of sunspot-activity, according to which this maximum was expected for 1968.4 with a highest smoothed sunspot-relative-number of Rm = 110. As on the average over all cycles observed hitherto Rm amounts to about 100, the present maximum should be of medium intensity. In the year 1965 the mean relative-number came to 15, in 1966 to 47, in 1967 to 94, and in the first nine months of 1968 to 107. These values are in close agreement with the prediction, though due to the month-to-month fluctuations the determination of the height and epoch of the maximum will be possible in the course of 1969 only. For the year 1968 the following sunspot-relative-numbers are available up to now:

Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.
115	107	92	81	128	114	97	111	121

The so far highest monthly mean was observed in May, i.e. in 1968.5. The maximum however may still slightly shift, as it will be fixed basing on the smoothed sunspot-relative-numbers. But it is evident quite now that the maximum occurred around the middle of the year 1968, and in 1969 sunspot-activity will be on its descending branch already. The value of Rm will be available in some months only. According to the present state of sunspot-activity — and unless any unforeseen situation will occur — Rm might amount to about 109. Then our prediction would prove to be very appropriate considering that for individual cycles Rm diverges from 50 to 200.

Now as the epoch and intensity of the maximum is known rather definitely, the further course of the current 11-year cycle can be predicted more easily. The decrease of activity will be passing off somewhat more slowly than was the increase. Of the eleven years of the cycle four years fall to the rise and seven years to the descent. The decrease of the smoothed monthly sunspot-relative-numbers should take place fairly regularly, from about 102 at the beginning of the year to about 82 at the end. Thus a mean sunspot-relative-number of 92 results for the year 1969, and this value coincides almost with that for the year 1967 (94). In the year 1969 the critical frequencies and the conditions of short wave communications will therefore be very similar to those in the year 1967.

As in the past, the Swiss Shortwave Service will emit each month the daily sunspot-relative-numbers as well as predictions of the smoothed monthly sunspot-numbers for six months ahead. The emission dates for this information will be as follows:

in the English programme:

Monday,	Jan. 13th,	Feb. 10th,	Mar. 10th,	Apr. 7th,
	May 5th,	June 9th,	July 7th,	Aug. 4th,
	Sep. 8th,	Oct. 6th,	Nov. 10th,	Dec. 8th.

in the Spanish programme:

Saturday,	Jan. 11th,	Feb. 8th,	Mar. 8th,	Apr. 5th,
	May 3rd,	June 7th,	July 5th,	Aug. 9th,
	Sep. 6th,	Oct. 4th,	Nov. 8th,	Dec. 6th.

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THE ROLE OF THE UNITED NATIONS IN SPACE COMMUNICATIONS

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This understanding can be increased through the utilization of satellite communications by the United Nations and its Specialized Agencies. As early as 1961, the United Nations General Assembly noted "the potential importance of communication satellites for use by the United Nations and its principal organs and Specialized Agencies for both operational and informational requirements". (Res. 1721-D/XVI/,20 Dec. '61).

Since then, the United Nations has devoted much time to the problems of outer space and to the problems of space communications. This work was highlighted by the convening of a United Nations Conference on the Exploration and peaceful Uses of Outer Space in Vienna, August 1968, which examined all aspects of space communications and the role which the United Nations could play in future development and utilization of Outer Space.

Discussions were held on a variety of problems deriving from the creation of two different international satellite systems and the emergence of regional and domestic satellite systems. The conference examined carefully the trends leading towards direct broadcast satellites and the political, economic and social implications connected with this new communications technology.

The Conference, in which 74 countries participated, felt that space technology should aid the developing countries of the world in such fields as telecommunications, education, meteorology, health, agriculture and in the developing of natural resources.

The Secretary-General of the United Nations, in a paper submitted to the Conference, presented a plan for the utilization of space communications for the maintenance of international peace and security and for the dissemination of information on the work and purposes of the world organization. He felt that the United Nations must take advantage of modern space technology in order to improve the speed and efficiency of United Nations peacekeeping operations, a matter of crucial importance in rapidly developing political situations.

In the field of information, the use of communication satellites could bring the deliberations of the General Assembly, the Security Council and other United Nations organs into the living rooms of millions of people in every corner of the globe, thus contributing to the exchange of political, social and economic ideas, and broadening the areas of understanding by the peoples of the world through the sharing of the same experience at the same time — although continents apart. A United Nations channel on satellite communication systems will permit the people of the world to look over the shoulders of their statesmen during diplomatic conferences and be witness to the making of history.

JOSEF C. NICHOLS,
Chief International & Satellite Communications Unit, Radio and Visual Services Division, United Nations.

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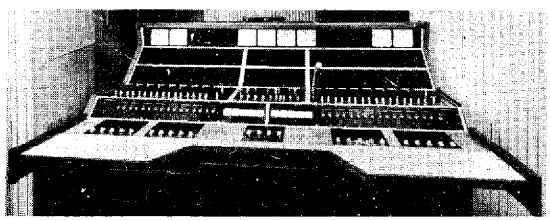

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THE EUROVISION SATELLITE SCHEME

by Georges Hansen, Director of the Technical Centre of the European Broadcasting Union.

The readers of the World Radio Handbook have been informed, for many years, of the continuous development of Eurovision operations. There is no sign yet of this development being halted or even reduced.

It was this development of Eurovision, together with the successful utilisation of the early telecommunication satellites for television transmissions — in particular the utilisation of the geostatic satellites such as *Syncom 3* and *Early Bird* — which in 1966 led the E.B.U. Technical Centre to think that a system of satellite circuits might one day with advantage replace and surpass the classical network of terrestrial radio relays and cable circuits used for Eurovision.

It must be made quite clear that the principle under consideration was not that of distributing programmes by way of satellite circuits directly to the television broadcasting stations, the radio-relay chains constituting the national television distribution networks would continue to be used. The principle is that of substituting satellite circuits for the international "vision" junctions and the commentary and international "sound" circuits used in Eurovision for routing the programme material from the country of origin to the various countries wishing to integrate it in their own programmes. In the terminology recently introduced by the C.C.I.R., this is an indirect distribution satellite system.

According to the E.B.U. scheme, there would be at first some twenty earth-stations in Europe and North Africa. It was considered desirable to provide for an extension to the whole of Africa and, to that end, the satellite would be equipped with two transmitting aerials:

— one of them having a beamwidth of 7° for serving Europe and North Africa—including Iceland and the Middle East,
— the other having a beamwidth of 12° for serving the whole of Africa.

Figure 1 indicates the areas that would be served, if the satellites were placed over the equator at longitude 15° East of Greenwich. The satellite would be equipped with two transponders, each capable of being connected to either of the transmitting aerials, and capable also of transmitting *simultaneously* either

— two programmes to Europe only,
— one programme to Africa and another programme to Europe, or
— one and the same programme to Africa and Europe.

In order that the Eurovision satellite might fulfil its purpose, the technical quality of the transmissions effected by means of it would have to be equivalent to that obtained using terrestrial "vision" and "sound" circuits. The performance specifications were defined accordingly.

The availability of such a satellite system would present very substantial advantages for Eurovision:

1) the possibility of setting up the desired network configuration practically instantaneously, irrespective of the number of participating services. This is of great importance as, more and more frequently, news will have to be transmitted during the event or as soon as possible after the event,
2) the geographical extension of Eurovision to Iceland, the Middle East and the whole of Africa. Such extensions would be impossible or, at the best, extremely costly, if effected by conventional methods.

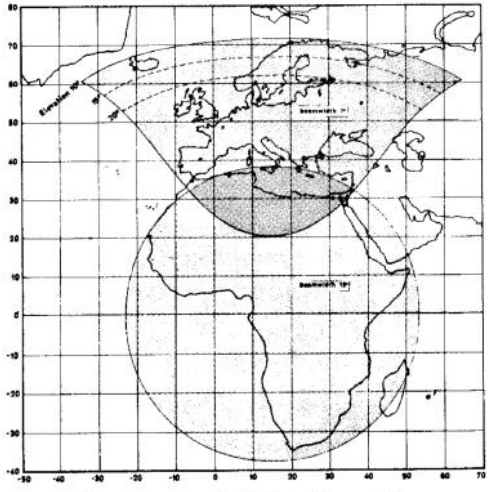
It should be noted that the inclusion of Africa in the scheme is little complicated by differences of local time, relative to Europe. Thus, programmes distributed over a Eurovision satellite network would take place at times that would be just as convenient for Africa as for Europe. Moreover, there wou'd be no "political" problem, as the programmes would not be broadcast direct to the viewers, and every television service participating in the scheme, in Africa as in Europe, could contribute programmes to the network or receive them, provided of course that each had a suitable earth station.

The Experimental Stage: One of the projects under study by the European Research Organisation (ESRO) at the request of the European Conference on Satellite Communications (CETS) is aimed at the Eurovision objective, and it may be said that the projected satellite EURAFRICA developed by the ESRO constitutes virtually a prototype of the operational satellites which the E.B.U. would use in due course. This project is studied in detail in the ESRO report entitled 'Final report on the supplementary study requested by the European Conference on Satellite Communications" which appeared in December, 1967.

The outcome of the Eurafrica experimental satellite project is not known at the time of writing (October 1968); it depends on decisions to be taken by the C.S.E. (European Space Conference—a governmental conference at ministerial level) at its next meeting, in November, 1968, in the matter of the European space policy.

It is, of course, well known that in April, 1968, the United Kingdom Goverment informed the other governments concerned, that it had decided not to participate in the C.E.T.S. television satellite project, that is to say, the EURAFRICA project. This decision inevitably cast some doubt on the prospect of ultimately putting the project into effect.

The future: A condition for the E.B.U. to carry on with the Eurovision Satellite Scheme, is that the scheme



Coverage zones of the Eurovision satellite.

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should be economically sound, that is to say that the costs entailed by the capital-investment charges and the cost of renting the Earth-stations and the Control Centre would have to be less than the cost of leasing the conventional vision and sound circuits. The E.B.U., moreover, has asked that the Earth-stations for the operational system should not cost more than 500,000 US dollars each. The reason for this limit is to enable those Members of the E.B.U. whose financial resources are relatively small nevertheless to take part in the Eurovision satellite scheme.

The studies concerning the economic viability of the operational scheme have shown that the optimum configuration is that wherein four satellites are launched during ten years, the first two as soon as possible, each of the others when a satellite in orbit becomes unserviceable. Under these conditions, the system would be economically viable, provided that the launchers used are comparable in cost and reliability with American launchers (cost: 4.5 million US dollars each, probability of success: 0.9), and provided that the satellites cost about 3 million dollars each, and have a probability of about 0.5 of surviving after five years.

It would also be necessary that suitable locations should be found for the Earth-stations; "suitable" in this context implies being reasonably close to a television production centre or a key-point on the national radio-relay network.

The frequencies used by those stations should be in the 4 GHz and 6 GHz bands in order to keep them at sufficiently low cost and below the 500,000 US dollars limit stipulated by the E.B.U.

There are many problems still being studied but what has been said here may already give the reader of the World Radio TV Handbook a good idea of what the Eurovision Satellite Scheme represents.

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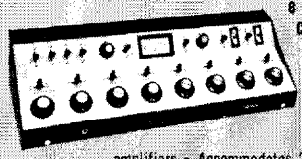

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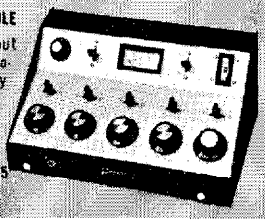

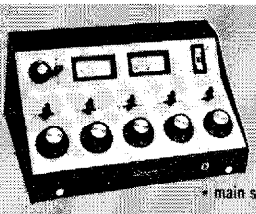

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RADIO BROADCAST RECEPTION CONDITIONS EXPECTED DURING 1969

By George Jacobs, Chief, Frequency Division, Voice of America, U.S. Information Agency, Washington, D.C. 20547

By international agreement, broadcasting stations are allocated the following specific bands in the radio spectrum:

LONG WAVE (Low Frequency)		MEDIUM WAVE (Medium Frequency)	
Kilocycles	**Meters**	**Kilocycles**	**Meters**
150-285	1053-2000	525-1605	187-571

SHORT WAVE
Tropical Broadcasting Bands

Kcs.	Megacycle Band	Meter Band
2300–2495	2	120
3200–3400	3	90
4750–5060	4	60

HIGH FREQUENCY BROADCASTING BAND

Kcs.	Megacycle Band	Meter Band
3900– 4000	3.9	75
5950– 6200	6	49
7100– 7300	7	41
9500– 9775	9	31
11700–11975	11	25
15100–15450	15	19
17700–17900	17	16
21450–21750	21	13
25600–26100	25	11

While the majority of the world's broadcasting stations operate within these bands, some operate outside. Most out-of-band operations, however, take place on frequencies adjacent to, or on the edge of the bands allocated for broadcasting.

The Long-Wave band (used in Europe) and the Medium-Wave Band (used worldwide) while allocated mainly for domestic broadcasting, are used also for some international broadcasting to adjacent countries. Although long- and medium-wave stations are normally heard only for moderate distances, long-distance reception is possible over dark transmission paths, mainly during the fall, winter and spring months in the reception area.

The Tropical Broadcasting Bands are assigned for use for domestic broadcasting in tropical areas, where high atmospheric noise levels limit the service area of medium-wave stations. DX reception on these bands is best when the transmission path between the transmitter and receiver is all or mostly in darkness. These bands are used mainly by stations in Latin America, Africa, South and Southeast Asia and Oceania.

The High Frequency Broadcasting Bands, or shortwave bands as they are also called, between 3.9 and 26.1 megacycles (11 and 75 meters) are used for both international and domestic broadcasting. These bands are allocated for worldwide use, except that the 3.9 and 7Mc bands are not allocated for broadcasting in the American area. Also, the 3.90 to 3.95Mc portion of the 75 meter band is used only in Asia and Oceania.

Reception conditions on these bands vary according to the time of day and season of the year. Most of the international broadcasting stations make seasonal changes in frequency usage, mainly on the first Sunday of March, May, September and November. Changes may often be made at other times during the year, due to interference, change of program times, addition of new transmitters, etc. A large percentage of the domestic broadcasting stations operating in the high frequency bands do not make seasonal changes, but some, particularly the stations in India, Pakistan, USSR and South Africa, do make seasonal shifts.

Shortwave, and long-distance medium and long-wave broadcast reception is possible only because of the existence of an electrified region high in the earth's atmosphere. This region, electrified by nature, is called the ionosphere. It is the ionosphere, acting somewhat like a mirror, that reflects radio signals over great distances.

The ionosphere is believed to be caused, at least in part, by ultraviolet radiation given off by the sun. The amount of radiation illuminating the ionosphere varies hourly, seasonally and geographically, depending upon the relationship between the sun and the earth. Reception is usually better on the higher frequency bands (15, 17, 21 and 25Mc) when the sun is more directly overhead or closer to the earth, for example, during the daylight hours, during the winter season, and in tropical or southern regions. Reception in the lower frequency bands (3.9, 6, 7, 9 and 11Mc) is usually better when the sun is lower in the sky, or further from the earth, for example, during the hours of darkness, during the summer season, and in temperate and northern geographical areas.

In addition to hourly, seasonal and geographical changes in reception conditions, there is a year-to-year change over an approximate 11-year cycle.

For reasons not yet fully understood by scientists, this 11-year cycle change appears to result from the difference in the number of sunspots appearing on the face of the sun. When the sun's surface is covered with a great number of spots, the ionosphere is electrically strong and long-distance radio reception is often at its best; when the number of sunspots diminishes, reception becomes poorer. During 1957-61, when the sunspot cycle was at or near its maximum, reception conditions were at their best. During the years 1963-66 there were few sunspots on the face of the sun and reception conditions were considerably poorer.

A new sunspot cycle began during October of 1964 and climbed to a sunspot level greater than 100 by early 1968. Although the experts are not in agreement as to the month or exact value, the present cycle almost certainly reached its maximum sometime during the summer or fall of 1968, with a smooth sunspot number probably in excess of 110. This means that 1968 was a peak year for shortwave radio reception, and that solar activity is now declining.

A sunspot cycle generally declines very slowly the first year or two after it has reached its maximum level. Solar activity during 1969, therefore, is expected to remain at a moderately high level, probably between a count of 90 to 100. This should result in only a slight decrease from the quality of reception noted during 1968.

The following is a general summary of reception conditions expected on each shortwave broadcasting band during 1969:

25Mc band (11 meters)

Excellent reception conditions over long distances is expected during the spring, fall and winter months. Long distance reception should fall off during the summer months, but reception of stations one-thousand or so miles away generally improves during this season. With a moderate level of sunspot activity, a large number of international broadcast stations are planning to schedule transmissions in the 11 meter band during 1969.

21Mc band (13 meters)

Reception of exceptionally strong signals over distances of many thousands of miles, from all areas of the world should be possible during the daylight hours, or when it is daylight at one end of the path, and early evening at the other end. With the high level of sunspot activity predicted for 1969, almost all international broadcast organisations are planning to use this band throughout the year, and a very high level of congestion is expected.

17Mc band (16 meters)

Excellent long-distance reception of stations from all areas of the world should be possible in this band throughout the year from shortly after dawn through the early evening hours. Almost all international broadcast organisations are planning to use this band during 1969, and a very high degree of congestion is expected.

15Mc band (19 meters)

During 1969, propagation conditions in this band are expected to be excellent for the reception of both long-distance stations from medium distances of several hundred, or a thousand miles away. The band is expected to be full of stations with exceptionally strong signals from shortly after sunrise, through the daylight hours and into the evening. During the spring and summer months, excellent reception may also be possible during the night-time hours as well. Exceptionally long-distance reception is more likely to occur for a short period after sunrise, and again during the late afternoon and early evening hours. Medium-distance reception should be best during the late morning and early afternoon hours. With such favorable propagation conditions, and with so many stations planning to use this band, the congestion in the 19 meter band is expected to be greater than in any of the other shortwave broadcast bands.

11Mc band (25 meters)

This is expected to be an excellent band for medium-distance reception during the hours of daylight. During this period, at any season of the year, exceptionally strong signals should be received from stations that are between approximately 500 and 2000 miles away (900 to 3400km). Long-distance reception from stations several thousand miles away should be possible for a short period after sunrise, and again during the late afternoon and early evening hours. During the summer months, both medium and long-distance reception should also be possible during the hours of darkness. Heavy congestion is expected in this band, especially during the late afternoon and early evening hours.

9Mc band (31 meters)

This band is expected to be excellent for daytime reception over short-to-medium distances of the order of 400 to 1500 miles (700 to 2500km). Fairly good long-distance reception, over many thousands of miles, should be possible throughout the year during the early evening hours, through the hours of darkness and until shortly after sunrise. Almost every shortwave broadcast organisation is expected to use this band during 1969, and a high level of congestion is very likely to occur, especially during the early evening hours.

7 and 6Mc band (41 and 49 meters)

Excellent short-range reception is expected on these bands during the daylight and early evening hours, for distances up to approximately 1000 miles (1650km). During the fall, winter and early spring months, when static levels are low, fairly good medium and long-distance reception should be possible from shortly after sunset, through the hours of darkness and until shortly after sunrise. High static levels are expected to make long-distance reception somewhat difficult during the late spring and summer months. Fairly heavy congestion is expected in these bands, especially during the late afternoon and evening hours.

4, 3 and 2Mc bands (60, 90 and 120 meters)

These bands are used mainly for short-distance reception. During the hours of daylight, stations within a radius of a few hundred miles should be heard well. After sunset, and throughout the hours of darkness, the reception range should increase to at least several hundred miles, and for the more powerful stations, to a thousand miles or more. During the summer months, high static levels are likely to make reception in these bands difficult at times.

For more specific reception information, please refer to the Table of the Most Suitable Meter Bands for 1969 (see page 52.

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DX-ALLIANSEN publishes monthly a bulletin, "Allians Nytt". An English edition is published several times a year, and is distributed by Radio Sweden's DX-bulletin. DX-Alliansen also offers a special, very nice, DX-badge for different numbers of verified countries.

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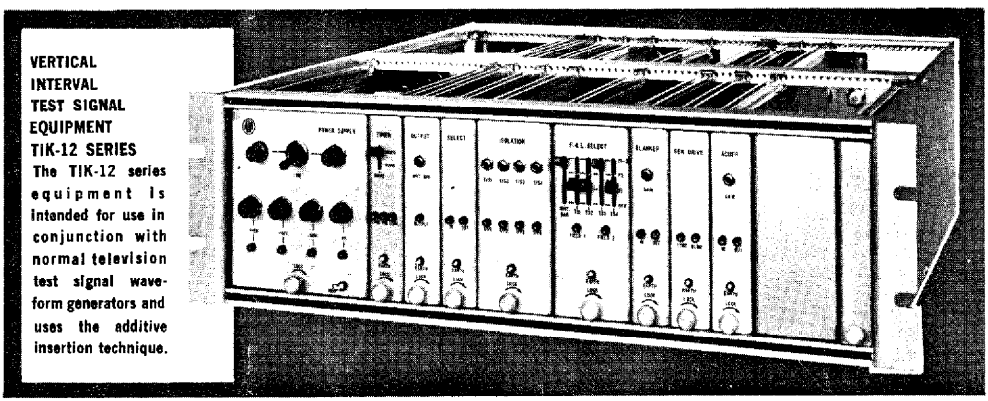

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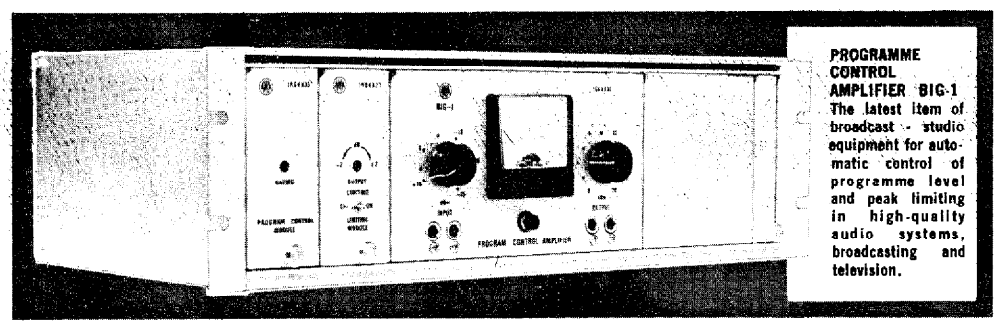

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I will have to take a deep breath to tell my story in a nutshell for it began a long long time ago, as a matter of fact in 1928.

Actually it had already started in 1927 when the Philips Light and Radio Company at Eindhoven, Holland, built the first experimental long distance short wave transmitter with call letters PCJ in an effort to reach the then Netherlands East Indies with a view of establishing spoken Radio contact with countries at the other side of the globe. The experiments by the Philips engineers were so successful that already in March 1927 Queen Wilhemina of the Netherlands spoke for the first time in history to her subjects overseas. Shortly thereafter the still kind of makeshift transmitter was removed from the Eindhoven Laboratories and factory area to an open spot on the heath at the outskirts of the city of Hilversum--20 miles from Amsterdam—with a view of further experiments to build a much larger and stronger station in the future. That was in 1928.

It was here at Hilversum that my Radio career started, although at that time I never dreamed it would become such a part of my life. The entire set-up then was of an extremely modest nature. In a small, then vacant private house, a studio and amplifier room were established, and a wired connection of some 200 yards was made with the transmitter then housed in a wooden shack with near it a little concrete pool of water to serve the cooling of the transmitter valves, also called tubes. For this was the beginning of the time of factory-made water cooled transmitting valves, which had to be tested in actual practice and reported upon. Especially the high vacuum rectifier tubes for a while were a constant headache and an expensive one too. The transmitter itself with a power of no more than 10kW still was a very experimental affair with loose wires and connections, control meters, power switches, condensers and transformers, water hoses, fuses, insulators, and what not. One had to be careful not to trip over all that paraphernalia, and not to touch any of the high frequency outlets and last not least at night not fall into the waterfilled cooling pool outside! High tension everywhere. But it was fun and thrilling to be there in that pioneering time, when everything was still hand-operated by no more than two expert technicians and a controlling engineer giving me a good working knowledge of this new high frequency business. And oh yes, the transmitting antenna! Believe it or not, it consisted of but a 150 yard wire run diagonally from our shack to a nearby Radio mast of the local medium wave station. Very primitive indeed, but it did the trick!

The signals went round the world and we were not interfered by any station simply because we were still the first and only ones to operate on a wavelength of 31.28 metres. Those were the days, . . . 40 years ago. Unforgettable days.

Also my studio set-up was a very primitive one. A Reiss carbon microphone within a white marble block and a metronome acting as time and intermission signal. On a sturdy table a big oldfashioned His Master's Voice phonograph or gramophone, that had to be cranked up every 5 minutes and kept at the right speed of 78 RPM., and this with a pick-up as heavy as half a brick, fed by steel needles that had constantly to be changed. Along the wall there were piles of twelve inch gramophone records with operas, operettas, overtures, and the lighter stuff like dance music by Jack Hylton, Paul Whiteman, and the other boys of Big Band fame of that time. It was a great time. "Happy days are here again!" we played to all corners of the earth . . . and I said: "Ladies and Gentlemen . . . this is the Happy Station of Hilversum, Holland . . . Is everybody happy? Please let us have your reports on reception, intensity of sound, quality of modulation, and how you like the programme." Reports, letters and cards came from all over the world. Friendly and enthusiastic letters, many from far-flung outposts and remote and isolated spots, from technical listeners building their own receivers on a self-made circuit, from explorers, scientists and missionaries, as well as from radio operators on board ship somewhere on the Seven Seas.

This new long distance communication and the thrill it brought to many thousands, acted as a wonderful inspiration to me. It became a fascinating game, a most interesting and versatile work, whilst the listeners snapped up the idea of the "Happy Station" with its music and carefree chit-chat as a sort of tonic. It spread like wildfire and the reciprocal happiness of spirit grew with leaps and bounds in many countries where short waves were the only means of long distance communication. But there was one handicap. A big BUT! Ours being an experimental transmitter run by an **industry,** we had but an experimental licence and as such were bound to certain regulations for operators outside official broadcasting. All announcements had to be on the technical side only. No news casts, no political or non-political commentaries, no religious features, no communication of any sort, excepting what strictly belonged to the testing and experimenting vocabulary . . . or the licence would be taken in. This rule was very rigidly applied by the authorities.

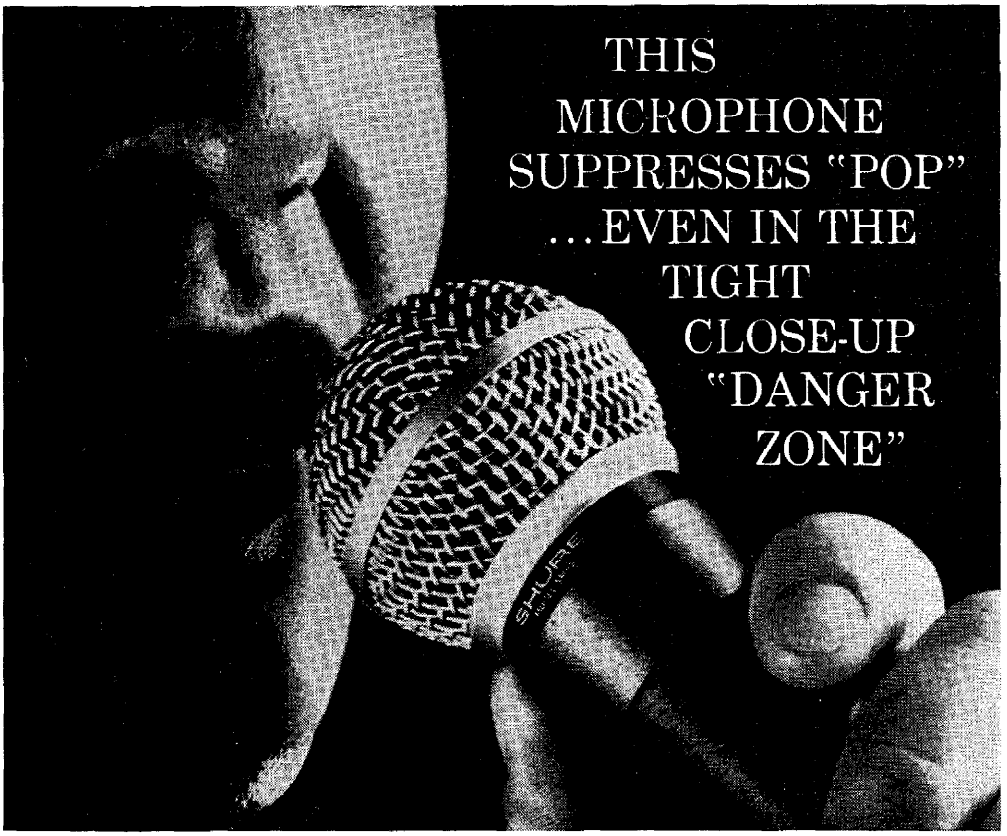
All of a sudden I realised I had a responsibility and that I had to abide by the law. Did it curtail my enthusiasm about the new medium? Certainly not. I simply had to find aside the technical talk, which in the long run could also become boring, something that could not be strictly termed: communicative! I had to create a format of my own. So, I invented a certain chitchat in between the musical offerings. About the music, the artists, the compositions, the weather conditions, the surrounding nature, the flowers and the plants, the traffic outside, the small happenings in the studio and on the transmitter, something on educational matters now and then, and so on . . . and mould it all into an optimistic and happy atmosphere, throwing in some poetry for good measure, and finally answer the incoming correspondence from the listeners, which in itself offered a wide variety of talk that could not be termed as editorial news or official commentary. Except for some occasional raps on my knuckles, I got away with my system, thereby keeping listeners in a happy mood while building bigger and better musical programmes to suit the international audience. Good and well planned musical entertainment is the best communication for all Radio listeners. It is a language that is universally understood.

Naturally a good and clear voice is needed on the short waves especially, to cope with the typical representation of fading, interference, distortion, as well as natural or man-made static referred to in the short wave code as QRM and QRN.

I never knew before entering this new field, that I had what is generally called a clear "Radio voice". But I discovered that I just happened to have one, which was a lucky circumstance and a reason to be grateful for until this very day.

Since the broadcasts, aside from the technical angle, were principally meant for listeners beyond our borders, the most universally spoken languages had to be English and Spanish and some Portuguese for Portugal and Brazil. In between of course I also used Dutch for those nationals who lived abroad as well as for the members of the Netherlands Merchant Marine. Furthermore there had to be also announcements in German and French, as well as in a number of other foreign tongues for which I had to acquire a certain smattering knowledge to identify

continued page 37)



The Shure SM58 self-windscreened unidirectional microphone is ideal for broadcast uses as remote news, sports, interview and vocal recordings because it eliminates or minimizes the irritating "pop" caused by explosive breath sounds. It's great for studio announcing, too—or wherever the announcer or vocalist "hugs" the microphone. Of course, the same filters that eliminate pop also do away with the necessity for an add-on windscreen for outdoor uses.

On the other hand, the unusually effective unidirectional cardioid pickup pattern (uniform at *all* frequencies, in *all* planes) means that it is a real problem-solver where background noise is high or where the microphone must be operated at some distance from the performer. Incidentally, but very important, the SM58 tends to control the low frequency "boominess" that is usually accented by close-up microphones.

Other features: the complete pop-proof filter assembly is instantly replaceable in the field, without tools. Filters can be easily cleaned, too. Stand or hand operation. Detachable cable. Rubber-mounted cartridge minimizes handling noise.

Special TV tested non-glare finish. Multi-impedance, small size for maximum handability.

SHURE SM58

SELF-WINDSCREENED UNIDIRECTIONAL DYNAMIC MICROPHONE

Write for complete details and technical data, to—

(continued from page 35)
ourselves and stimulate cooperation among the very large and diversified listener potential.

It goes without saying that for this highly international and versatile work on a worldwide geographical scale, one has to have considerable linguistic ability to hold the attention of listeners many thousands of miles away, in addition to possessing not only a sense of humour, but also a feeling for the right psychological approach. A friendly approach. Travel abroad, work and experience in North as well as in South America, sometimes under very trying and difficult circumstances, had put me to a certain extent through what Americans call "the mill of life", learning things the hard way. Just being linguistic and possessing a bit of the "gift of the gab" is not sufficient. Long distance Radio offers a powerful means of expression and influence, and success lies not so much in the fact of how many languages one speaks, but the manner in which one uses the language and the thought one wants to convey.

From the very beginning of short wave Radio communication, I felt that this was not only a matter of bridging distances, but offering a tremendous opportunity for the birth of an ideal. To instill, spread and promote universal understanding in the world. To bring a message of goodwill and cheer no matter what creed or nationality. By accentuating the positive things of life and to do this in a smiling and cheerful manner. In other words to create a universal atmosphere of tolerance and goodfellowship for the benefit of all concerned. To consider the peoples in the world as one great family of which we all want to be a member. We now had the technical means to reach the world through a new and powerful medium. This medium should be used in a simple and logical way to promote Peace through a feeling of happiness. Our international call letters in those early days were PCJ—which for many years I interpreted as: *Peace, Cheer,* and *Joy*. This ideal, enhanced by spirited and beautiful music formed and still forms the base and the platform on which the now 40 years old "Happy Station" is built.

Before the Second World War when still with Philips, I travelled wide and far to personally meet and speak to a great many of our listeners. In Spain and Portugal, in America, India and Indonesia, and other countries. To learn from actual experience and personal contact about the characteristics, customs, likes and dislikes of the audience thereby constantly keeping tuned to the pulse of the world. "Keep in touch with the Dutch" I said, and we shall try to make it worth your while!

The outbreak of the Second World War put a rude stop to our endeavours to carry on with our peaceful message. Actual operations had come to a sudden standstill. I went out of broadcasting and for 5 years became a clandestine listener, hoping for the final score, while planning how to resume one day our interrupted activities.

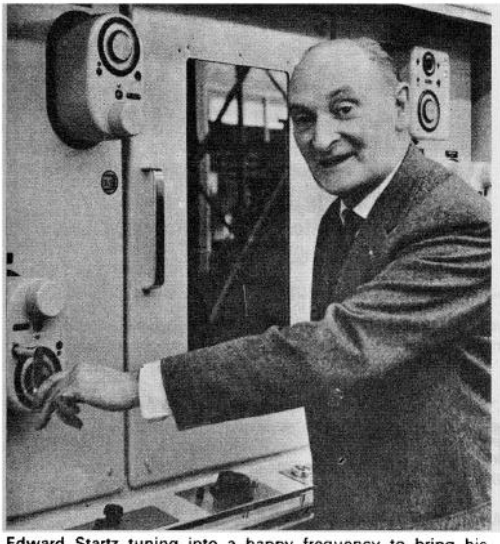
When finally the nightmare was over, a new and much greater, now national Organisation was formed: Radio Nederland Overseas Service, the official but independent mouth-piece of the Netherlands, now consisting of a large staff with many separate departments for the Dutch, as well as international services, with new and more powerful transmitters and studio equipment, including in 1969 a modern 2 × 300kW network built by Dutch engineers on the island of Bonaire in the Netherlands Antilles. This with a view of covering the South, Central and North America. A similar Relay station is also planned for the future to serve the Southern and Eastern hemisphere.

Returning to the flashback. In 1945 I was asked to join the new organisation of Radio Nederland with a view of continuing my interrupted pioneer programme under the familiar name of the "Happy Station". Through consistent and diligent work by my relatively small staff and the wonderful loyalty of our far spread audience, the Phoenix of friendship and goodwill rose once more from the ashes! In 1953 I was honoured by Queen Juliana by a Knighthood in the Royal Order of Orange Nassau for my contribution in spreading Peace and goodfellowship in the world for and from the Netherlands.

Again I travelled to many countries and even once around the world by K.L.M., our own national airline. Many new contacts were made adding to the ever increasing audience of enthusiastic short wave listeners, proving once and for all that the message of good will and international friendship is not a phrase but a fact and a tremendous reward for 40 years of dedicated toil on the etherlanes of high frequency Radio communication.

To the Editors of "World Radio TV Handbook" whose initiative I have from the beginning ardently supported as an excellent and much needed source of reliable information for listeners and viewers around the world, — my sincerest wishes for continued success.

Best 73's.
Edward Startz.



Edward Startz tuning into a happy frequency to bring his worldwide programme to you.

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To keep the WRTH and its Summer Edition completely up-to-date we appeal to you to SEND US YOUR SCHEDULES REGULARLY. In turn we promise to keep your world-wide listeners informed about changes of times and frequencies.

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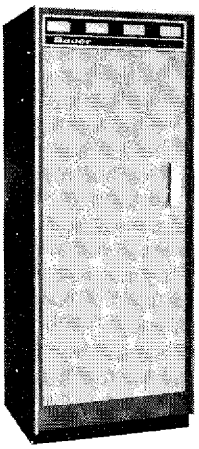
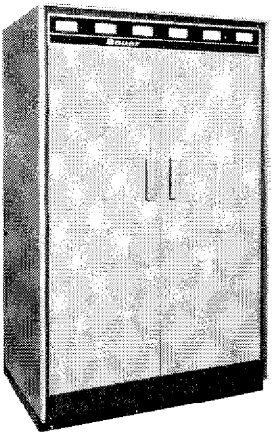


1 Kw



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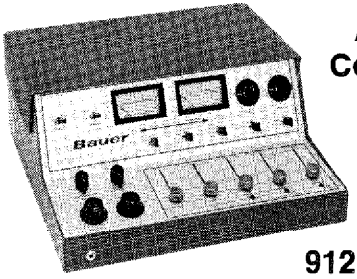

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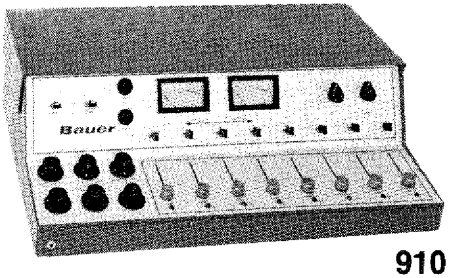

910

910 Series—Provides 8 mixers, talk back, speaker muting and cue facilities. All silicon solid state. 28″ x 18″ x 9″. Dual channel or stereo models.

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DUTCH WORLD BROADCASTING SYSTEM

TO OPERATE

NEW RELAY STATION

ON THE ISLAND OF BONAIRE

Few DXers would deny that overcrowding of the short-wave bands has assumed very serious proportions during the past ten years. More and more stations are claiming a share of the already inadequate range of frequencies allocated for broadcasting purposes, and at the same time the battle for the survival of the fittest is being waged on a basis of transmitter power.

Radio Nederland's transmitter station is situated at Lopik, about 20 miles southwest of Hilversum, and consists at present of three 100kW, one 50kW and one 10 kW transmitters. For many years these have afforded satisfactory reception of programmes in several languages, the response to which is revealed in the tens of thousands of letters which the station receives annually. But it has also become clear from these letters that the quality of reception has been falling during the past decade. Our Propagation Department was confronted with the unpleasant fact that previously satisfactory wavelengths had become unusable owing to the arrival of new or more highly powered stations. We were constantly obliged to seek new frequencies to avoid interference from other stations and looked avidly for possibilities to give a better service to our listeners.

1964 saw the completion of the Trans World Radio transmitting station on the island of Bonaire in the Netherlands Antilles. Its extremely favourable position from the point of view of reception in North and South America led to an offer being made by Radio Nederland to buy air time on both the medium and short wave transmitters, an offer which was quickly accepted. The years during which this arrangement has operated have shown conclusively that, in many areas, signals from Bonaire are received much more clearly than signals from Lopik. Radio Nederland accordingly decided to build a relay station of its own on the island, from which programmes will be broadcast when the contract with Trans World Radio expires.

Bonaire has an area of about 106 square miles. With five other islands it forms the Netherlands Antilles, an autonomous part of the Kingdom of the Netherlands. A significant proportion of the operating personnel of the new station will be drawn from the local population, and thus the siting of the station on Bonaire is an important contribution to the island's economic development. North Bonaire, as the new station is called, is easy to find: the visitor has only to follow the coast road running north-west from Kralendijk. Its position is revealed well in advance by the towering aerial masts. The station has two 300kW transmitters, built by the Philips concern at their factory in Huizen.

A transmitter of the type used consists mainly of a large cabinet containing amplifiers for the H.F. section, in which the weak signal from the oscillator (which determines the frequency of the outgoing signal) are amplified to the power required for the carrier wave; and for the L.F. or modulation section, in which the programme signal is amplified to the power required to superimpose it on the carrier wave and feed both to the aerials for onward transmission. In addition to the cabinet, there is a considerable amount of apparatus for the provision of energy, both A.C. and D.C., at various voltages, and for dissipating the heat generated in the transmitter during operation.

The power distribution equipment is housed in a special room. Occupying 4,300 cubic feet of the building, this is crammed with transformers, rectifiers, condensers and chokes. The cooling plant, ventilators, heat exchangers and measuring and control equipment also demand a substantial amount of space. These are housed in a separate building with a floor area of nearly 5,000 square feet.

The provision of electricity for the new station was in itself a problem. At full modulation, each of the transmitters consumes nearly 900kW, much of it at 10,000 volts. Adding the power consumed by the lighting and air-conditioning plants, coolant circulation pumps, etc. brings the total to something like 2,000kW. To meet this demand the station is provided with a generating plant, consisting of six diesel-driven sets, each with a rated output of 500kW; this is well in excess of actual requirements and will permit a highly desirable degree of flexibility in operation, while at the same time leaving at least one generator available as a stand-by during overhauls or in emergency.

The choice of cooling systems for the transmitters and the engines powering the generators was perhaps as complex a problem as providing them with energy. Local factors played an important role in the final choice. The station is quite close to the coast, and thus water cooling was found more satisfactory than air cooling, the more so in view of the high ambient temperature. The cooling systems of the transmitters and diesel engines are of the enclosed type and employ fresh water. This is circulated by means of pumps and passes through heat exchangers, the jackets of which are fed with sea water by a number of high-capacity submersible pumps situated several feet beneath the surface. After use, this water is returned to the sea.

The third main component of the station is the aerial system. Altogether, twenty-one aerials are used to beam signals in various directions on various frequencies. The majority are curtain arrays embodying reflectors — some active, others passive — which serve to limit radiation to one side of the array. A number of the aerials are of the twin-band type — i.e., they are suitable for two adjacent frequency bands. Switchgear mounted beneath some of the aerials enables the direction of radiation to be reversed or the angle varied within certain limits.

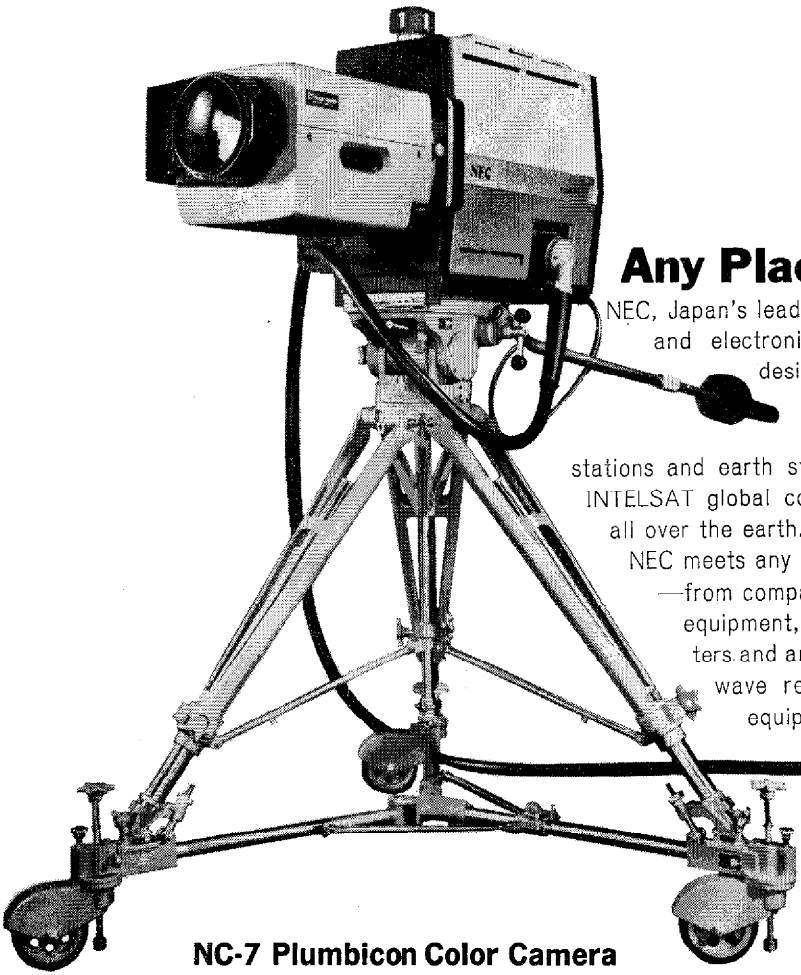
In addition to the curtain arrays there are a number of single dipoles for medium-range transmissions, and, finally, an omnidirectional quadrant aerial serving the local area. Seventeen steel pylons, varying in height from 82 to 330 feet, are required to support the aerials. These pylons are of open lattice construction and resemble scaled-down versions of the Eiffel Tower; the stresses set up by the weight of the aerials and by winds are absorbed by anchors let into the rocky bed on which the masts are erected. The aerial feeders and associated switchgear are mounted on steel masts, the foundations for which were made by drilling holes in the rocks.

A large number of switches are needed to enable each transmitter to be connected to the aerial desired for a particular transmission. For their purpose (the 300kW modulated H.F. line) these switches are very sizeable. They are housed in a special building in aluminium cabinets measuring $31\frac{1}{2} \times 31\frac{1}{2} \times 51$ inches, and are remotely controlled from the transmitter hall.

It is obvious that in an installation such as this, where very high voltages are employed, extensive safety measures are required to protect operators and equipment. At

(continued page 41)

NEC Integrated Broadcasting Systems Go Places.



NC-7 Plumbicon Color Camera

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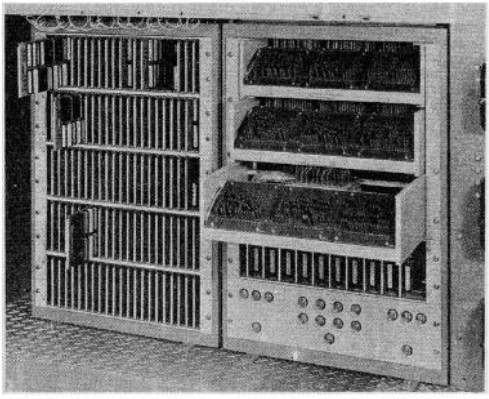
ANNUAL SUBSCRIPTION

Part A (six numbers): 230 Belgian francs. Publishers: EBU Technical Centre, 32 Avenue Albert Lancaster, Brussels, Belgium.
Part B (six numbers): 20 Swiss francs. Publishers: EBU Administrative Office, 1 rue de Varembé, CH-1211 Geneva 20, Switzerland.
A combined subscription to Parts A and B (12 numbers) may be ordered either from Brussels or Geneva (price 420 Belgian francs or 36 Swiss francs).

Bonaire North, an electronic "watchdog" system automatically breaks the high-voltage circuit, or switches off the entire equipment, if a fault develops or if an operating error is made. The importance accorded to safety is such that the apparatus concerned is more complex than the equipment which it protects; it is thus obviously costly, but in addition to protecting human lives and equipment it enables faults to be rapidly diagnosed and rectified.

A few miles from the transmitting station is the Relay Centre, in which the programmes to be transmitted are compiled from material supplied from Hilversum. Items other than news and current affairs are pre-recorded and flown to Bonaire by K.L.M. Royal Dutch Airlines.



The electronic equipment as used in the new Bonaire transmitters for automatic tuning, interlocking circuits and fault tracing.

News and other items subject to change at a moment's notice are transmitted over a radio link shortly before the programme is due to go on the air from Bonaire; a comprehensive receiver installation with a matched aerial is used for this purpose and recording and editing machines enable these items to be rapidly prepared for transmission.

In the future, these "feeder programmes" will be transmitted by radio telephony in the "fixed" bands. A telephony transmitter with single sideband modulation has been hired from the Dutch Postal and Telegraph authorities for this purpose. From the technical point of view, the feeder link is the weakest in the chain, but the experience of recent years gives every hope of satisfaction in the future. So much for the plan and the means by which it will be realized. But you will be most interested in knowing when and on which frequencies you can tune in to North Bonaire. At the time when this article was written (September, 1968), the final phase of construction had commenced. Barring unforeseen events, test transmissions are expected to begin early in January, 1969. These will go on the air from 2330 to 0130 GMT in the 6MHz band (the frequency will probably be 6085kHz). The programmes will be identical to those transmitted on 800kHz at the same hour. Reception reports covering the **first** test transmission from North Bonaire will be rewarded with a special QSL-card. After a test period of four months, the new programme schedule will commence on May 4th, 1969.

We take this opportunity to remind experienced DXers that any assistance which they can render in our efforts to establish the most suitable frequency bands for these new transmissions will be most welcome. As stated in the WRTH Summer Supplement, 1968, we shall be pleased to supply the requisite information to any DXer willing to assist us in this way.

RECORDED MUSIC LIBRARIES

Most Recorded Music Libraries operating in England supply Recorded Music, often specially commissioned, generally of varied character (although some may specialise) and designed especially to meet the needs of programme producers in the fields of television, film and radio. Recordings are usually available on disc (either specially-produced 78 r.p.m. for facility of groove location, or microgroove) although ¼in. tape versions at 7½ and 15 i.p.s. full track are often available by arrangement and some two-track stereo may be offered.

Conditions of usage vary in different territories but it should be pointed out that both the musical works and the recordings thereof are the copyright property of the owner-publisher and the public performance by any means is subject to the requirements of the Performing Right Society, 33 Berners Street, London W.1 (or their representatives in the territory concerned).

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Prices and conditions of usage will gladly be supplied by the publisher concerned from whom also a classified catalogue can be obtained.

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Chappell & Co, 68-70 Clarence St, Sydney.
W. H. Paling (Pty) Ltd, 338 George St, Sydney.
Allans Music (Australia) Pty. Ltd, P.O. Box 513J, Melbourne C.1.
Essex Music of Australia (Pty) Ltd, 32-34 York St, Sydney, NSW 2000.
J. Albert & Son Pty. Ltd, 137-139 King St, Sydney, NSW.
Southern Music Publishing Co. Ltd, 38-40 York St, Sydney, NSW.

AUSTRIA
Ludwig Doblinger, 10 Dorotheergasse, A-1010, Wien 1.
Joseph Weinberger GmbH, Mahlerstrasse 11, Wien 1.
Wien Melodi, Mahlerstrasse 11, Wien 1.
Southern Music, GmbH, Seilergasse 12, Wien.

ARGENTINA
Editorial Argentina de Musica Internacional, Lavalle 1494, Buenos Aires.

BRAZIL
Editora De Musica Brasileira e. Internacional S.A, Av. Almirante Barroso 91, Rio de Janeiro.

CHILE
Southern Music Internacional, Calle Lirios 374, Santiago de Chile.

BELGIUM
Telefilm Service, 28 Rue Lefbroussart, Bruxelles.
Primavera, 22 Blvd. Maurice Lemonnier, Bruxelles.
Editions Francis Day S.A, 25 Place Saint-Gery, Bruxelles.
P. M. Belgolux, 13 Rue de la Madeleine, Bruxelles.
Southern Music S.A, 13, Rue de la Madeleine, Bruxelles.

CANADA
Boosey & Hawkes (Canada) Ltd, 109-213, Victoria St, Toronto, Ont.
Chappell & Co. Ltd, 14 Birch Ave, Toronto, Ont.
Canadian Music Sales Corporation Ltd, 58 Advance Rd, Toronto 18, Ont.
Southern Music Publishing Co. Ltd, 1405 Bishop St, Montreal.

DENMARK
Metronome Records, Vibevej 31, 2400 Copenhagen NV.
Viggo Petersen, Jenslev, 4070 Kirke-Hyllinge.

FINLAND
Felix Filmi OY, Toolontorikatu 7a, 2 Helsinki 26.

ENGLAND
Airborne Music Ltd, 26-27 D'Arblay St, London W.1.
Berry Music Co. Ltd, 10 Denmark St, London W.C.2.
Boosey & Hawkes Music Publishers Ltd, P.O. Box 1 BR, London W.1.
Bosworth & Co. Ltd, 14-18 Heddon St, London W.1.
Chappell Recorded Music Library, 50 New Bond St, London W.1.
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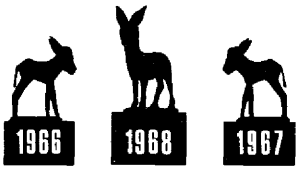

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ABBREVIATIONS

Addr. = Address
AD = Advertising
Adm. = Administration
Adv. = Advertisement
Ag. = Acting
Amat. = Amateurs
ALF = Annual License Fee
A.M. = Amplitude modulation
Ann. = Announcement
Ant. = Antenna
Approx. = Approximately
Apr. = April
Apt. = Apartado
Assoc. — Associate(ion)
Asst. = Assistant
Aug. = August
Av = Avenue, Avenida

B.P. = Boite Postale
Br. = British
Broadc. = Broadcast(ing)

C = Central
Ca. = Calle
Cas. = Casilla
Ch. = Channel
Chmn. = Chairman
Gi. = Ciudad
Co. = Company
Comm. = Commercial
Contr. = Controller
Corp. = Corporation
C.P. = Caixa Postal
Cra = Carrera
c/s = Cycles per second

D = Daily
d. = Directional aerial
Dec. = December
Def. = Definition
Dem. = Democratic
Dept. = Department
Dep. = Deputy
Dir. — Director
Dir. Gen. = Director General
Div. = Division
DX = Long distance

E. = English
Ea. = East
E. by R. = English by Radio
Ed. = Edificio
Educ. = Education, Educational
Emis. = Emisora
Equip. = Equipment
Eng. = Engineer, Engineering
ERP = Effective radiated power
exc. = Except
Exec. = Executive
exp. = Experimental

Feb. = February
Fed. — Federal
F. = French
F.I. = Financing
F.M. = Frequency modulation
F.PL. = Future plans
For Rel. = Foreign Relations
Fri = Friday
Freq. = Frequency

G. = German
G.C. = Geographical Coordinates*
Gen. Mgr. = General Manager
G.M.T. = Greenwich Mean Time
Gov. = Government
Gr. — Greek

h = Hour
H = Horizontal polarisation
Hqs. = Headquarters

I = Italian
incl. = including
Inf. = Information
Int. = International
Int Sig = Interval Signal
I.p.s. = Inches per second
Isl. = Islands

Jan. = January

kc = Kilocycles
kHz = Kilohertz
kW = Kilowatt

L.P. = Leading Personalities
L = Language
L.N. = Local News
L.L. = Language Lessons
L.T. = Local Time

Man. = Managing
Mgr. = Manager
MHz = Megahertz
Miss. = Missionary
Mon = Monday
m.b. = Meter band
Mbg. = Mailbag
MW. = Medium Wave

N. = News
Nac. = Nacional
Nat. = National
Net. = Network
nd = non directional antenna
No. = North
Nov. = November

occ. = Occasionally
Oct. = October
Org. = Organisation

Pa. = Pacific
P. = Portuguese
Po. = Population
Pol. = Polarisation
P.R. = Peoples Republic
Pr. = Private
Prod. = Production
Pr.L. = Principal Languages
Pres. = President
Prgr. = Programme
Pub. = Publication

R = Radio
Rcvrs. = Receivers
Re. = Report
Rec. = Records
Red. = Rediffusion
Rdif. = Radiodiffusion
Reg. = Regional
Rel. = Relay(ing), Relations
Rlg. = Religious
Rep. = Republic
Rf. = Rundfunk
Rp. = Return postage required
Rus. = Russian

Sat = Saturday
Sce. = Service
sched. = Schedule
Secr. = Secretary
Sen. = Senior
Sep. = September
So. = South
Soc. = Sociedad(e)
So. We. = South West
Sp. = Spanish
SSR = Sovjet Socialist Rep.
St. = Station
Str. = Street
Su. = Summer
Sun = Sunday
Superv. = Supervisor
SW = Shortwave

Te. = Telephone
Techn. = Technical
Terr. = Territory
Thurs = Thursday
Tr. = Transmitter
Trop. = Tropical
Tues = Tuesday
T.V. = Television

UHF = Ultra High Frequency
Univ. = University

V = Vertical polarisation
V. = Verification
VHF = Very High Frequency

W = Weekdays
We. = West
Wed. = Wednesday
Wi. = Winter
Wrp. = Weather report
* given in degrees and minutes.

Abbreviations of broadcasting organizations, countries.
ABC = Australian Broadc. Comm — AFN = American Forces Network — AFRTS = Armed Forces Radio and Television Sce — AIR = All India Radio — BBC = British Broadc. Corp — BCC = Broadcasting Corpo. of China — BFBS = British Forces Broadcasting Service — BFN = British Forces Network — BR = Bayrischer Rundfunk — BRT = Radiodiffusion Television Belge — CBC = Canadian Broadc. Corp — COPE = Cadena de Ondas Populares Española — DLF = Deutschlandfunk — DW = Deutsche Welle — FBS = Forces Broadc. Service — FCC = Federal Communications Commission — FEBC = Far East Broadc. Company — ITA = Independent Television Authority — NDR = Norddeutscher Rundfunk — NHK = Nippon Hoso Kyokai — NZBC = New Zealand Broadc. Corpo — OCORA = Office de Cooperation Radiophonique — ORTF = Office de Radiodiffusion Télévision Française — RAE = Radiodiffusion Argentina al Exterior — RAI = Radiotelevisione Italiana — RBI = R. Berlin International — REM = Red de Emisoras del Movimiento — RFE = Radio Free Europe — RIAS = Rundfunk in Am. Sector — RNE = Radio Nacional de España — RRI = Radio Republik Indonesia — RSA = Radio South Africa — RTB = Radiodiffusion Television Belge — SABC = So. African Broadc. Corpo — SBC = Swiss Broadc. Corpo — SDR = Süddeutscher Rundfunk — SEARV = South East Asia Radio Voice — SER = Sociedad Española de R.dif — SR = Saarländischer Rundfunk — SSS = Swiss Shortwave Service — SWF = Südwestfunk — TRT = Turkish Radio-Television Establishment — TWR = Trans World Radio — VOA = Voice of America — WDR = Westdeutscher Rundfunk — WNYW = R. New York Worldwide — UN — United Nations.
Af = Africa — Am = America — Au = Australia — As = Asia — Co = Congo — Czech = Czechoslovakia Socialist Rep — Eu = Europe — FE = Far East — ME = Middle East — NE = Near East — GB = Great Britain — G.D.R. = German Democratic Republic — N.Z. = New Zealand — UAR = United Arab Republic — UK = United Kingdom of Gt. Britain = USA = United States of America — USSR = Union of the Soviet Socialist Republics.

Abbreviations of firms: AKG = Akustische und Kino-Geräte G.m.b.H, Vienna — AWA = Amalgamated Wireless Australia Ltd — CFTH = Compagnie Française Thomson Houston Paris — GE = General Electric — L.G.T. = Laboratoire General des Telecommunications — NEC = Nippon Electric Company, Tokyo — RCA = Radio Corporation of America — STC = Standard Telephone & Cables Ltd — T.C.A. = Telecommunications of Australia — TRT — Télécommunications Radio-électriques et Téléphoniques, Paris.

Special Abbreviations for Shortwave Listeners:
Q-Codes: The following "Q" Codes, devised at the Cairo Convention of 1938, are used among shortwave enthusiasts listening to broadcasting stations (socalled DXers): QRG = Frequency; QRK = Readability; QRM = Interference (from other transmitters); QRN = Atmospheric interference (static); QRT = Close down; QSA = Signal strength; QSB = Fading; QSL = Verification (of reception); QTH = Location.

The following abbreviations are generally used in club publications:
BC = broadcast; BCB = Broadcast band, i.e. medium wave band; CW = Continuous Wave, i.e. morse code; HF = High Frequency; ID = Station Identification; IRC = International Reply Coupon; LA = Latin America; mx = music; nx = news; OM = Old Man, a general term of greeting; rx = Receiver; SSB = Single Side Band; SWL = Shortwave Listeners; Tnx = Thanks; tr = Transmitters; 73's = Best Wishes.

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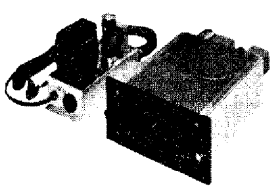

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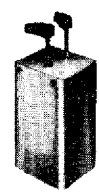

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UNDA-Revue: French and English.

RELIGIOUS SOCIETIES PROTESTANT
ERA: Evangelical Radio Alliance, 30 Bedford Place, London W.C.1, England. Secr: Rev. J. Hywel Davies.
IBRA Radio Mission, Box 821, 101-31 Stockholm 1, Sweden. Member organisation: IBRA Radio Federation is an intern. fed. of listeners. (See Sweden.)
IKOR (Radio and T.V. Committee of the Ecumenical Council of Churches in the Netherlands): Borneolaan 27, Hilversum.
NCRV: Nederlandse Christelijke Radio Vereniging, Schuttersweg 8, Hilversum.
NOREA: Nordic Radio Evangelistic Association. In connection with Norwegian Lutheran Mission. Cooperating with Trans World Radio, Monaco, Broadcasting over R. Monte Carlo. (See Norway and Finland.)
VRPO: Vrijzinnig Protestantse Radio-Omroep, Hilversum, Holland.
Radio Réveil: Action Chrétienne par la Radio et la Presse, 2022 Bevaix (NE), Switzerland.

AFRICA:
CENTAVEP: Centres des Techniques Audio-Visuelles de l'Eglise Presbytérienne Camerounaise, B.P. 187, Yaounde, Rép. Fédérale du Cameroun. Dir: D. Ako'o (is owned by the Cameroun Presbyterian Church, but helps the other Protestant Churches of the Federation).
Service radiophonique de la Fédération protestante (same address). Dir: A. Pache. (Works in connection with the National Radio and "Radio Voice of the Gospel" in Addis Ababa).

AMERICA:
Trans World Radio: Home Office, Box 98, Chatham, N.J. U.S.A.
Pres: Dr. Paul E. Freed (Operates two radio stations in Monte Carlo, Monaco, and Bonaire, Netherlands Antilles).
National Religious Broadcasters, Inc. an association of protestant national and international broadcasters on radio and TV. National Office: Dr. B. L. Armstrong, Exec. Sec, Box 308, Madison, N.J.07940. Pres, Dr. E. R. Bertermann, 2185 Hampton Ave, St. Louis, Mo 61139.
NRB comprises over 200 religious broadcasting organizations consisting of stations and program producers. Sponsors conventions on national and regional areas Eastern, Midwest and Western Chapters.
International Christian Broadcasters, an international service organization for those who use radio and television to proclaim the Gospel, and to encourage the use of these mass media throughout the world for the furtherance of the Gospel. Sponsors of national and international conferences.
Addr: 1111 Nicollet Ave, Minneapolis 55403. Pres: R. Wolff. Exec. Dir: A. G. Thiessen.
Lutheran Television Production, a Board of the Lutheran Church—Missouri Synod, producing and distributing "This is the Life "Pattern for Living". Exec. Secr: Dr. M. J. Neeb, Jr. Prgr. Dir: Dr. H. W. Gockel, 210 N. Broadway, Saint Louis, Missouri 63102, U.S.A.
Difusiones Inter Americanas: (DIA), an evangelical organization, established to produce, process, distribute and promote radio and TV progr's, recordings and audio visual aids for the evangelizing of Latin America.
Addr: Apt.2470, San José, Costa Rica.
Latin American Mission, 285 Orchard Terrace, Bogota, N.J. and Apt. 1307, San José, Costa Rica. Publ: "Radio Headlines".
Central American Mission (operates TGNA, Guatemala City & TGBA, Barillas, Guatemala).
Addr: Box 28005, Dallas, Texas 75228, U.S.A.
Centro Audio-Visual Evangelico (CAVE) produces and distributes religious, educational and cultural audio-visual material, non projected aids, filmstrips, slides, projectors, LP records, radio programs as well as dubbing of TV Films in Portuguese. Studios and filming laboratories are made available to other organizations upon request. Gen. Secr: Dr. William E. Haney, C.P.943, Campinas, São Paulo, Brazil.
The Evangelical Alliance Mission: P.O. Box 969, Wheaton, Ill.60187, USA. Gen. Dir: V. Mortenson.
Operates HLKX, Inchon, Rep. of Korea, PJA-6, Aruba, Neth. Antilles, OAZ, Lima, Peru.
The Gospel Missionary Union: Headquarters, Smithville, Mo. USA. Pres: R. J. Reinmiller. Publ: Gospel Message.
West Indies Mission: P.O. Box 39, Coral Gables, Fla.33134, USA. Dir. Gen: Rev. J. Allen Thompson. Dir. of Radio Haiti Field: Rev. David Hartt. Publ: "The Whitened Harvest". Is working in the West Indies and in South America.
Broadcasting and Film Commission NCCUSA, New York, USA. National Council of Churches of Christ in the USA, 475 Riverside Drive, New York 10027. Exec. Dir: W. F. Fore.
RAVEMCCO, New York, USA: Radio, Visual Education and Mass Communication Committee of the Division of Overseas Ministries of the National Council of the Churches of Christ in the USA, 475 Riverside Drive, New York, N.Y.10027. Dir: Dr. B. M. Luben.
Far East Broadcasting Co. Inc, P.O. Box 1, Whittier, California. Pres: Robert H. Bowman. Private Comp. with offices in twelve countries. Publ: "FEBC Broadcaster" monthly. Operates st's in Manila (Philippines), Naha (Okinawa) & San Francisco (USA).
The Lutheran Hour "Bringing Christ to Nations", Saint Louis, USA. Sponsored by the Lutheran Laymen's League, 2185 Hampton Avenue, St. Louis, Missouri 63139. Exec. Dir: Eugene R. Bertermann.
The Oriental Missionary Society and the **Inter American Missionary Society,** P.O. Box A, Greenwood, Indiana 46142, USA.
Pres: Dr. Eugene A. Erny. Dir. Haiti Field incl. allied missionary activities: Wm. A. Gillam, Box 1, Cap Haitien, Haiti. Operates St: 4VEH, Cap Haitien, Haiti.
World Radio Missionary Fellowship: HCJB-TV, Quito, Ecuador; HOXO, Panama. Pres: Abe Van der Puy, P.O. Box 691, Miami, Florida, USA.
Operates La Voz de los Andes, HCJB, Ecuador; No. American Headquarters: P.O. Box 691, Miami, Florida 33147, USA.
Canadian Baptist Foreign Mission Board, 190 St. George St, Toronto 5, Ontario, Canada. Gen. Secr: Dr. O. E. Daniel. Operates R. La Cruz del Sur, La Paz, Bolivia.

ASIA AND PACIFIC:
The Near East Council of Churches: P.O. Box 5376, Beirut, Lebanon. Rev. Albert Isteero, Gen. Secr; Y. I. Hourani, Arabic Prgr. Dir; Mrs. I. Malek, Persian Prgr. Dir (P.O. Box 1505, Tehran, Iran).
Christian Broadcasting Association, 420 Lyons Rd, Five Dock, Sydney, N.S.W, Australia 2046. Man. Dir: Rev. V. Turner, Radio prgr. production on behalf of Protestant Churches.
Pacific Broadc. Ass, GPO Box 1000, Tokyo, Japan. **Chmn of Board of Dir's:** A. Hatori, Gen. Dir: A. Seely. Mgr: B. Holritz.

(continued page 52)

RENOWNED BISHOP HEARD WORLDWIDE

BISHOP S. McDOWELL SHELTON

THE PASTOR AND GENERAL OVERSEER OF THE

CHURCH OF THE LORD JESUS CHRIST OF THE APOSTOLIC FAITH

Several medium wave as well as shortwave stations carry the inspiring messages of this young successful Minister. Everyone is welcome to tune in and send your comments.

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RADIO AMMAN
Sat. 2415–2445 GMT
7.155 Mc. 4192 M.

MIBS
Sat. 0330–0430 GMT
3.329 Mc.–90.12 M.

HISD
Daily 1000–1100 GMT & 1800–1900 GMT
9.505 Mc.–31 M.
6.090 Mc.–49 M.
3.125 Mc.–90 M.

RADIO SURINAM
Sun. 430–530 GMT
620 Kc. Standard wave

TABLE OF THE

MOST SUITABLE BROADCASTING MEGACYCLE BANDS, 1969

Prepared by Roger Legge, Etlan, Virginia, U.S.A.

THE LISTENER'S AREA	LOCAL TIME	APPROX GMT TIME	LOCATION OF TRANSMITTING STATION																							
			Jan./Feb., Nov./Dec. 1969							Mar./Apr., Sept./Oct. 1969							May-August 1969							
			Eu/No.Af.	N.Am.(E)	N.Am.(W)	C./So.Am.	C./So.Af.	ME/So.As.	Ea.As.	Aus./NZ.	Eu/No.Af.	N.Am.(E)	N.Am.(W)	C./So.Am.	C./So.Af.	ME/So.As.	Ea.As.	Aus./NZ	Eu/No.Af.	N.Am.(E)	N.Am.(W)	C./So.Am.	C./So.Af.	ME/So.As.	Ea.As.	Aus./NZ.
EUROPE AND NORTH AFRICA	00.00-04.00	23.00-03.00	6	9	—	4	9	9	9	9	6	11	11	6	9	11	11	9	9	15	15	9	11	15	15	9
	04.00-08.00	03.00-07.00	6	6	9	6	11	9	9	7	6	9	11	6	11	11	11	9	9	11	15	9	11	11	15	9
	08.00-12.00	07.00-11.00	11	—	11	9	21	15	17	11	11	—	11	9	21	15	17	11	11	—	15	11	21	17	17	11
	12.00-16.00	11.00-15.00	11	21	11	15	21	17	15	11	11	21	11	15	21	17	15	11	11	17	11	15	21	17	15	11
	16.00-20.00	15.00-19.00	11	21	—	15	21	15	9	11	11	21	11	15	21	15	11	11	11	21	15	15	21	17	15	11
	20.00-24.00	19.00-23.00	6	11	—	15	15	11	9	11	6	15	—	15	15	11	11	11	9	17	—	15	15	15	15	11
NORTH AMERICA (EAST)	12-4AM	03.00-07.00	9	6	11	6	11	7	11	11	9	6	11	6	9	7	11	15	11	9	15	6	9	11	15	15
	2AM-6AM	07.00-11.00	7	—	9	9	11	11	11	11	11	—	9	9	11	11	11	11	11	—	11	9	11	11	15	11
	6AM-10AM	11.00-15.00	15	15	9	9	21	15	11	9	15	15	9	9	21	15	11	9	15	15	11	9	21	15	11	9
	10AM-2PM	15.00-19.00	21	15	—	15	21	15	—	—	21	15	—	15	21	17	—	—	17	15	—	15	21	17	—	—
	2PM-6PM	19.00-23.00	11	11	15	15	15	11	9	—	15	11	15	15	15	11	9	—	15	15	15	15	15	15	11	—
	6PM-10PM	23.00-03.00	6	6	15	6	11	11	17	17	9	6	17	6	9	11	17	17	15	9	17	6	9	15	17	17
NORTH AMERICA (WEST)	12-4AM	08.00-12.00	9	11	6	6	11	9	9	11	9	11	6	6	11	11	11	11	11	11	9	9	15	11	11	11
	4AM-8AM	12.00-16.00	11	15	6	9	11	9	9	9	11	15	6	9	15	9	11	11	11	15	9	9	15	11	11	11
	8AM-12N	16.00-20.00	15	21	—	15	21	11	15	11	15	21	—	15	21	17	15	11	15	17	—	15	21	15	15	11
	12N-4PM	20.00-24.00	9	15	15	15	21	11	15	15	11	15	15	15	17	15	15	15	15	17	15	15	21	15	21	15
	4PM-8PM	00.00-04.00	9	15	11	11	11	15	17	17	11	15	15	15	11	15	17	17	15	15	15	15	15	15	17	17
	8PM-12Mdt	04.00-08.00	9	11	11	9	11	15	11	15	11	15	15	9	11	15	15	15	15	15	15	9	9	15	17	15
CENTRAL AND SOUTH AMERICA	00.00-04.00	04.00-08.00	11	11	11	6	11	11	11	15	11	15	15	6	9	11	11	15	15	15	15	6	9	11	15	15
	04.00-08.00	08.00-12.00	11	11	11	9	11	11	11	11	11	11	11	9	11	11	11	11	15	11	11	9	11	15	11	11
	08.00-12.00	12.00-16.00	21	21	11	15	21	15	11	11	21	21	11	15	21	15	11	11	21	11	11	15	21	15	11	11
	12.00-16.00	16.00-20.00	15	21	—	15	21	15	15	11	17	21	—	15	21	15	15	11	17	21	—	15	21	15	15	11
	16.00-20.00	20.00-24.00	15	21	17	15	17	15	15	17	15	17	17	15	17	15	15	17	17	21	17	15	17	15	15	17
	20.00-24.00	00.00-04.00	11	11	15	9	11	11	17	17	15	15	17	6	9	11	17	17	15	15	17	6	9	15	17	17
CENTRAL AND SOUTH AFRICA	00.00-04.00	22.00-02.00	11	11	17	15	9	11	11	15	15	15	15	15	9	11	15	15	15	9	15	11	9	11	9	15
	04.00-08.00	02.00-06.00	11	11	11	11	9	11	11	17	11	11	15	11	9	9	11	17	11	9	15	11	9	11	11	17
	08.00-12.00	06.00-10.00	15	11	11	11	15	15	15	15	21	11	11	11	15	15	15	15	21	15	11	11	15	15	15	15
	12.00-16.00	10.00-14.00	21	15	9	15	15	17	17	11	21	15	11	15	15	17	21	11	21	21	11	15	15	17	17	11
	16.00-20.00	14.00-18.00	21	21	11	15	11	15	15	9	21	21	15	15	11	15	15	9	21	21	11	15	11	15	15	9
	20.00-24.00	18.00-22.00	15	21	—	15	11	11	15	11	17	17	—	15	9	11	15	11	15	15	—	15	9	11	11	11
MIDDLE EAST AND SOUTH ASIA	00.00-04.00	21.00-01.00	11	11	11	11	11	9	11	15	15	15	15	11	11	9	11	15	15	15	15	15	11	9	15	15
	04.00-08.00	01.00-05.00	9	9	15	11	11	9	17	21	11	11	15	11	11	9	17	21	15	15	15	11	11	9	17	21
	08.00-12.00	05.00-09.00	15	9	9	11	15	15	17	17	15	11	11	11	15	15	17	17	17	11	15	11	15	15	17	17
	12.00-16.00	09.00-13.00	21	15	11	15	21	15	15	11	17	15	11	15	21	15	15	11	21	15	11	15	21	15	15	11
	16.00-20.00	13.00-17.00	21	21	11	15	21	11	15	11	17	21	11	15	21	11	15	11	21	21	11	15	21	11	15	11
	20.00-24.00	17.00-21.00	11	17	—	15	17	11	11	9	15	21	—	15	17	11	11	9	17	21	—	15	17	11	15	11
EAST ASIA	00.00-04.00	16.00-20.00	9	15	—	11	11	9	6	11	15	17	—	11	11	11	6	11	15	17	—	15	11	11	9	11
	04.00-08.00	20.00-00.00	9	11	15	11	11	11	6	15	11	17	17	11	11	11	6	15	15	21	15	15	11	11	9	15
	08.00-12.00	00.00-04.00	9	15	21	15	15	15	15	17	11	15	21	15	15	15	15	17	15	17	15	15	15	15	15	17
	12.00-16.00	04.00-08.00	9	11	11	11	15	17	15	17	11	11	15	11	15	17	15	17	15	11	15	15	15	17	15	17
	16.00-20.00	08.00-12.00	21	11	9	11	15	17	11	11	21	11	11	11	15	17	11	11	21	15	11	15	15	17	11	11
	20.00-24.00	12.00-16.00	11	15	9	15	15	15	9	11	17	17	11	15	15	15	9	11	17	17	15	15	15	15	11	11
AUSTRALIA AND NEW ZEALAND	00.00-04.00	14.00-18.00	15	15	9	11	11	11	11	9	15	17	11	11	11	11	11	9	15	15	11	11	9	11	11	9
	04.00-08.00	18.00-22.00	9	15	—	11	11	11	11	9	9	15	—	11	11	11	11	9	11	15	—	11	11	11	11	9
	08.00-12.00	22.00-02.00	11	15	21	15	15	15	15	15	11	15	21	15	15	15	15	15	15	15	21	15	15	15	15	15
	12.00-16.00	02.00-06.00	9	11	17	15	15	17	17	11	9	15	17	15	15	17	17	11	11	15	17	15	15	17	17	11
	16.00-20.00	06.00-10.00	11	9	11	15	21	15	15	11	11	11	15	15	21	15	15	11	15	11	15	15	21	15	15	11
	20.00-24.00	10.00-14.00	21	9	9	11	11	11	11	9	21	15	11	11	11	11	11	9	21	15	11	11	9	11	11	9

The band selections have been made on the basis of both propagation conditions and operating schedules.
A dash in the band column indicates reception is not expected due to difficult propagation conditions or stations not normally operating in propagationally suitable bands.

(continued from page 50)

Metropole Building, 57 Peking Road, 3/F Hong Kong; 105 Sec. 2, Chung-Shan North Road, Taipai, Taiwan.
Transmitter: 50kW, bandswitching, with log periodic antenna, at Bulacan, Philippines.

Broadcasting and Audio Visual Aids Committee of the East Asia Christian Conference (BAVACO)
4-13 Shibuya 4-chome, Shibuya-Ky, Tokyo 150-19, Japan. Secr: M. S. Ogawa.
Audio Visual Evangelism Committee of Hong Kong Christian Council (member of World Association of Christian Communication) Providing Visual Aids and Broadcasting services for related churches.
Addr: 57 Peking Road, 3/F1, Kowloon/Hong Kong, Exec. Dir: Thomas W. Lung.

National Council of Churches Broadc. Network (N.C.C.B.N). Head Office: P.O. Box 4148, Manila, Philippines. Dir. Gen: J. W. Matthews. St. Mgr: B. Magdamo. Operates st's DYSR/DYCR/DYH4/DYB4, Dumaguete. St. Mgr: Juan Pia, Jr. Operates st's DZCH-AM/DZCH-FM, Manila.
"South East Asia Radio Voice", Serving Christian Councils of South East Asia through Broadcasting.
Addr: P.O. Box 4148, Manila Philippines. Exec. Dir: Constantino E. Bernardez. **Cable:** Interchurch, Manila. **Fi:** Operations underwritten by Protestant Churches affiliated with the World Association for Christian Communication.
Production Studios: 10 Salemba, Djakarta 1V/3, Indonesia; 82nd Street, Mandalay, Burma; 14 Pramuan Road, Bangkok, Thailand;

WORLD TIME IN ALL COUNTRIES

DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME

The differences marked + indicate the number of hours ahead the G.M.T. Differences marked – indicate the number of hours behind G.M.T.

	Normal clock Time	Summer Time
Aden	+3	+3
Afar & Issas	+3	+3
Afghanistan	+4½	+4½
Alaska[1]	–8	–8
Albania	+1	+1
Algeria	GMT	GMT
Andorra	+1	+1
Angola	+1	+1
Argentina	–4	–3
	(Oct-March)	
Ascension Isl.	GMT	GMT
Australia		
a) Victoria		
New South Wales, Queensland	+10	+10
Tasmania	+10	+11
b) N. Territory, S. Australia	+9½	+9½
c) W. Australia	+8	+8
Austria	+1	+1
Azores	–1	–1
Bahamas	–5	–5
Bahrein	+4	+4
Barbados (W.I.)	–4	–4
Belgium	+1	+1
Bermuda	–4	–4
Bolivia	–4	–4
Botswana	+2	+2
Brazil		
a) Eastern and Coastal	–3	–2a
b) Manaos	–4	–3a
c) Acre	–5	–4a
Brunei	+8	+8
Bulgaria	+2	+2
Burma	+6½	+6½
Burundi	+2	+2
Cambodia	+7	+7
Cameroon	+1	+1
Canada		
a) Newfoundland	–3½	–2½
b) Atlantic (Labrador, Nova Scotia)	–4	–3
c) Eastern (Ontario) Quebec*	–5	–4
d) Central (Manitoba)	–6	–5
e) Mountain (Alberta)	–7	–6
f) Pacific (Br. Columbia)	–8	–7
g) Yukon	–9	–8
Canary Islands	GMT	GMT
Cape Verde Isl.	–2	–2
Central African Rep.	+1	+1
Ceylon	+5½	+5½
Chad	+1	+1
Chile	–4	–4
China		
Peoples Rep.	+8	+8
Shanghai	+8	+8
Canton	+8	+8
Lhasa	+6	+6
Urumchi	+6	+6
Taipei	+8	+9
Colombia	–5	–5
Comoro Isl.	+3	+3
Congo, Rep. Kinshasa	+1	+1
Lubumbashi	+2	+2
Congo (Brazzaville)	+1	+1
Cook Isl.	–10½	–10½
Costa Rica	–6	–6
Cuba (W.I.)	–5	–5

	Normal clock Time	Summer Time
Curacao	–4	–4
Cyprus	+2	+2
Czechoslovakia	+1	+1
Dahomey	+1	+1
Denmark	+1	+1
Dominican Rep.	–5	–4
		(Oct-Jan)
Ecuador	–5	–5
Egypt	+2	+3
El Salvador	–6	–6
Ethiopia	+3	+3
Falkland Islands	–4	–3
Faeroe Islands	GMT	GMT
Fiji Islands	+12	+12
Finland	+2	+2
France	+1	+1
Gabon	+1	+1
Gambia	GMT	GMT
Germany	+1	+1
Ghana	GMT	GMT
Gibraltar	+1	+1
Gilbert Isl.	+12	+12
Great Britain	+1	+1
Greece	+2	+2
Greenland	–3	–3
Thule area	–4	–4
Guadeloupe	–4	–4
Guam	+10	+10
Guatemala	–6	–6
Guiana	–3¾	–3¾
Guiana (French)	–3	–3
Guinea	GMT	GMT
Guinea Equat.	+1	+1
Guinea (Port.)	–1	–1
Haiti (W.I.)	–5	–5
Hawaii	–10	–10
Holland	+1	+1
Honduras (Rep.)	–5	–6
Honduras (Brit.)	–6	–5½
Hong Kong	+8	+9
		(Apr-Oct)
Hungary	+1	+1
Iceland	–1	GMT
India	+5½	+5½
Indonesia		
a) Java, Sumatra	+7	+7
b) Borneo, Celebes, Bali	+8	+8
c) Moluccas, We. Irian	+9	+9
Iran (Persia)	+3½	+3½
Iraq	+3	+3
Ireland (Eire)	+1	+1
Israel	+2	+2
Italy	+1	+2
Ivory Coast	GMT	GMT
Jamaica (W.I.)	–5	–5
Japan	+9	+9
Jordan	+2	+2
Kenya	+3	+3
Korea, Rep.	+9	+9
Korea, Dem. Rep	+9	+9
Kuwait	+3	+3
Laos	+7	+7
Lebanon	+2	+2
Leeward Isl.	–4	–4
Lesotho	+2	+2
Liberia	–¾	–¾
Libya	+2	+2

	Normal clock Time	Summer Time
Lord Howe Isl.	+11	+11
Luxembourg	+1	+1
Macao	+8	+8
Madeira	GMT	GMT
Malawi	+2	+2
Malaysia	+7½	+7½
Malagasy Rep.	+3	+3
Maldive Isl.	+5½	+5½
Mali	GMT	GMT
Malta	+1	+1
Marianas	+10	+10
Marshall Isl.	+12	+12
Martinique	–4	–4
Mauritania	GMT	GMT
Mauritius	+4	+4
Mexico[2]	–6	–6
Monaco	+1	+1
Mongolia	+8	+8
Morocco	GMT	GMT
Mozambique	+2	+2
Nepal	+5.40	+5.40
Neth. Antilles	–4	–4
New Caledonia	+11	+11
New Guinea	+10	+10
New Hebrides	+11	+11
New Zealand	+12	+12
Nicaragua	–6	–6
Niger	+1	+1
Nigeria	+1	+1
Niue	–11	–11
Norfolk Isl.	+11½	+11½
Norway	+1	+1
Oman	+4	+4
Pakistan		
a) West	+5	+5
b) East	+6	+6
Palau	+9	+9
Panama	–5	–5
Papua	+10	+10
Paraguay	–4	–4
Peru	–5	–5
Philippines	+8	+8
Poland	+1	+1
Ponape	+11	+11
Portugal	+1	+1
Puert. Rico (W.I.)	–4	–4
Qatar	+4	+4
Reunion	+4	+4
Rhodesia	+2	+2
Rumania	+2	+2
Rwanda	+2	+2
Ryukyu Isl.	+9	+9
Sabah	+8	+8
Sahara (Sp.)	GMT	GMT
Samoa Isl.	–11	–11
S. Pierre	–3	–3
S. Tomé	GMT	GMT
Sarawak	+8	+8
Saudi Arabia	+3[3]	+3[3]
Senegal	GMT	GMT
Seychelles	+4	+4

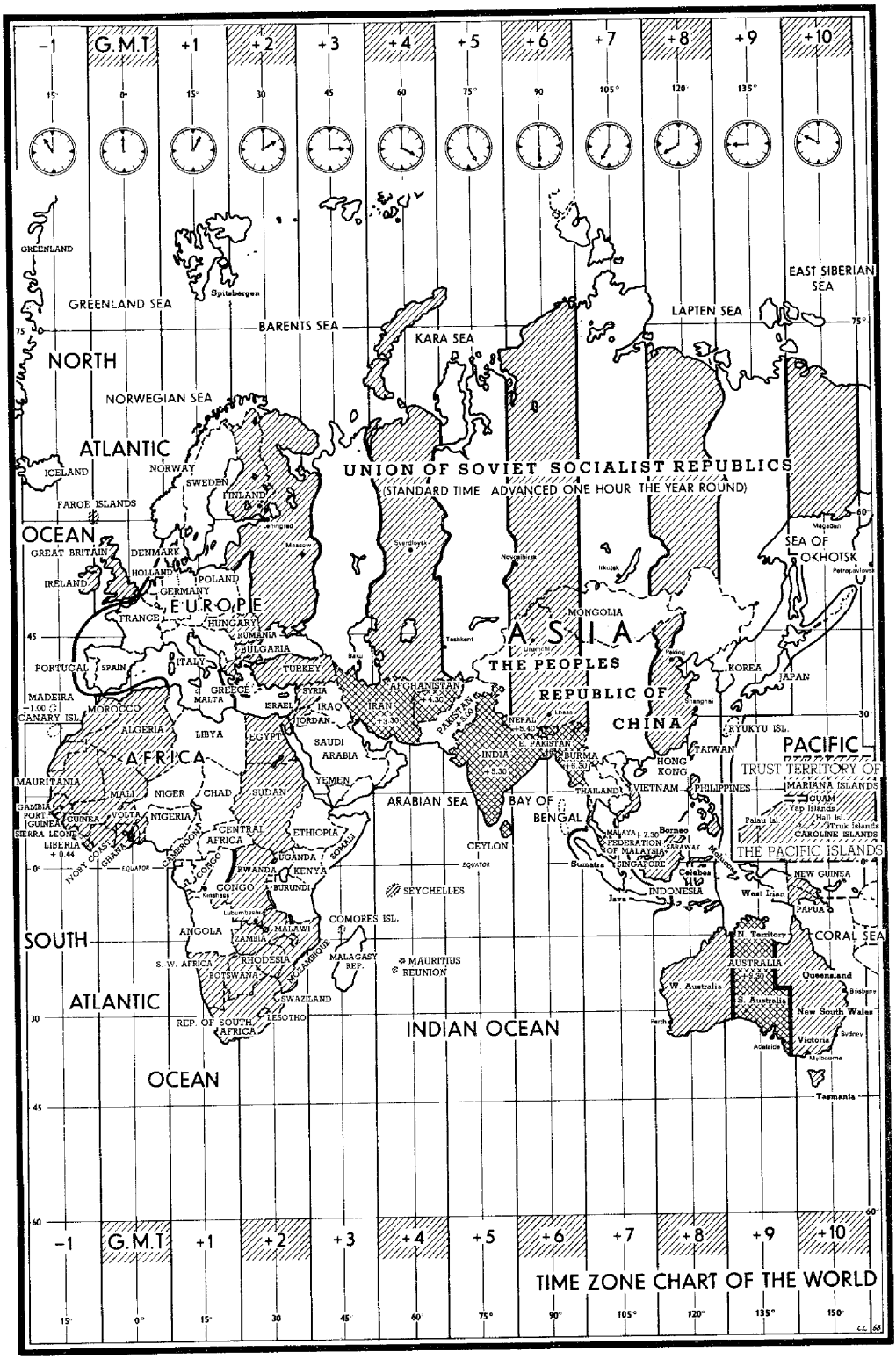
	Normal clock Time	Summer Time
Sharjah	+4	+4
Sierra Leone	GMT	GMT
Singapore	+7½	+7½
Solomon Isl.	+11	+11
Somalia	+3	+3
So. Africa	+2	+2
Spain	+1	+1
Sudan	+2	+2
Surinam	–3½	–3½
Swaziland	+2	+2
Sweden	+1	+1
Switzerland	+1	+1
Syria	+2	+3
Tahiti	–10	–10
Tanzania	+3	+3
Tasmania	+10	+11
Thailand	+7	+7
Timor	+8	+8
Togo	GMT	GMT
Tonga Islands	+13	+13
Trinidad (B.W.I.)	–4	–4
Truk	+10	+10
Tunisia	+1	+1
Turk & Caicos Isl.	–5	–5
Turkey	+2	+2
Uganda	+3	+3
Upper Volta	GMT	GMT
Uruguay	–3	–3
U.S.S.R.		
Moscow, Leningrad	+3	+3
Baku	+4	+4
Sverdlovsk	+5	+5
Tashkent	+6	+6
Novosibirsk	+7	+7
Irkutsk	+8	+8
Yakutsk	+9	+9
Khabarovsk	+10	+10
Magadan	+11	+11
Petropavlovsk	+12	+12
Anadyr	+13	+13
U.S.A.		
a) Eastern Zone	–5	–4
b) Central Zone	–6	–5
c) Mountain Zone	–7	–6
d) Pacific Zone	–8	–7
Vatican	+1	+1
Venezuela	–4	–4
Vietnam (Rep.)	+8	+8
Vietnam (Dem. Rep.)	+7	+7
Virgin Isl.	–4	–4
West Papua	+9½	+9½
Windward Isl.	–4	–4
Yap	+10	+10
Yemen	+3	+3
Yugoslavia	+1	+1
Zambia	+2	+2

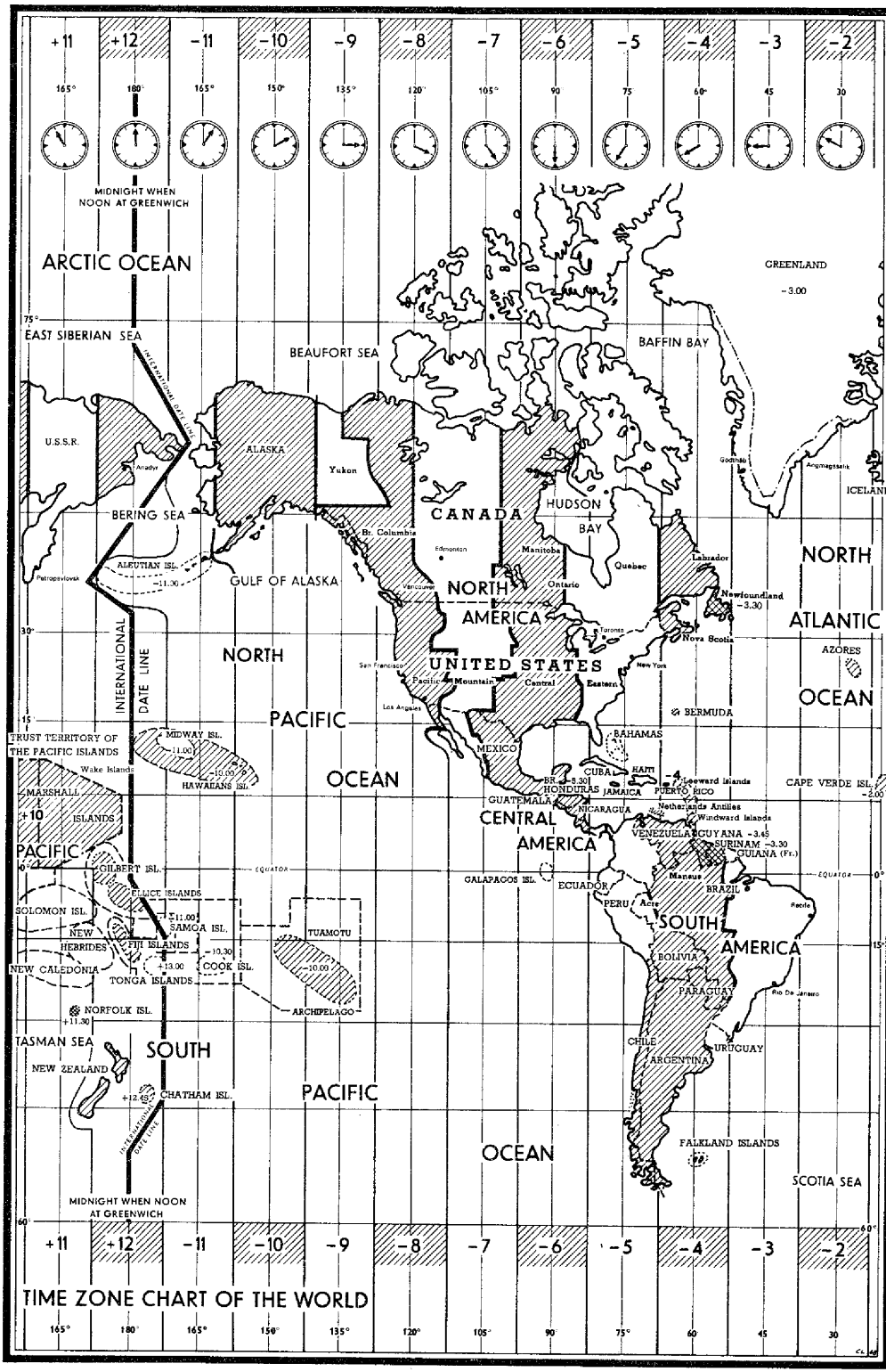
1)a) Ketchikan to Skagway –8
b) Skagway to 141°W. long –9
c) 140°W. long to 162°W. long –10
d) 162°W. long to Westernmost point (incl. Aleutians) –11

2) Generally –6
Lower Cal.
Pa. coast –7
No. part –8

3) Approx. (based on Sun Time)

* exc. the watch shore and Gaspe regions: 5 h behind G.M.T.
a) Dec-March.


-1
G.M.T
+1
+2
+3
+4
+5
+6
+7
+8
+9
+10
GREENLAND
GREENLAND SEA
Spitsbergen
BARENTS SEA
KARA SEA
LAPTEV SEA
EAST SIBERIAN SEA
NORTH
ATLANTIC
OCEAN
NORWEGIAN SEA
ICELAND
NORWAY
SWEDEN
FINLAND
FAROE ISLANDS
UNION OF SOVIET SOCIALIST REPUBLICS
(STANDARD TIME ADVANCED ONE HOUR THE YEAR ROUND)
GREAT BRITAIN
IRELAND
DENMARK
HOLLAND
POLAND
GERMANY
EUROPE
FRANCE
HUNGARY
RUMANIA
BULGARIA
PORTUGAL
SPAIN
ITALY
TURKEY
GREECE
MALTA
MADEIRA
CANARY ISL.
MOROCCO
ALGERIA
LIBYA
EGYPT
ISRAEL
SYRIA
IRAQ
JORDAN
IRAN
AFGHANISTAN
PAKISTAN
SAUDI ARABIA
YEMEN
ASIA
MONGOLIA
THE PEOPLES REPUBLIC OF CHINA
KOREA
JAPAN
SEA OF OKHOTSK
RYUKYU ISL.
TAIWAN
HONG KONG
PHILIPPINES
VIETNAM
THAILAND
BURMA
NEPAL
E. PAKISTAN
INDIA
CEYLON
ARABIAN SEA
BAY OF BENGAL
MALAYA
FEDERATION OF MALAYSIA
SINGAPORE
SARAWAK
Borneo
Celebes
INDONESIA
Sumatra
Java
PACIFIC
TRUST TERRITORY OF THE PACIFIC ISLANDS
MARIANA ISLANDS
GUAM
Yap Islands
Palau Isl.
Hall Isl.
Truk Islands
CAROLINE ISLANDS
NEW GUINEA
West Irian
PAPUA
CORAL SEA
AUSTRALIA
N. Territory
W. Australia
S. Australia
Queensland
New South Wales
Victoria
Tasmania
MAURITANIA
MALI
NIGER
CHAD
SUDAN
GAMBIA
PORT. GUINEA
GUINEA
SIERRA LEONE
LIBERIA
IVORY COAST
GHANA
VOLTA
NIGERIA
CAMEROON
CENTRAL AFRICA
ETHIOPIA
SOMALI
UGANDA
KENYA
RWANDA
BURUNDI
CONGO
ANGOLA
ZAMBIA
MALAWI
MOZAMBIQUE
S.-W. AFRICA
RHODESIA
BOTSWANA
SWAZILAND
LESOTHO
REP. OF SOUTH AFRICA
MALAGASY REP.
COMORES ISL.
SEYCHELLES
MAURITIUS
REUNION
AFRICA
SOUTH
ATLANTIC
OCEAN
INDIAN OCEAN
EQUATOR
TIME ZONE CHART OF THE WORLD


+11
+12
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
165°
180°
165°
150°
135°
120°
105°
90
75
60°
45
30
MIDNIGHT WHEN NOON AT GREENWICH
ARCTIC OCEAN
GREENLAND
-3.00
EAST SIBERIAN SEA
BEAUFORT SEA
BAFFIN BAY
INTERNATIONAL DATE LINE
U.S.S.R.
ALASKA
Yukon
Godthab
Angmagssalik
ICELAND
BERING SEA
CANADA
HUDSON BAY
Br. Columbia
Edmonton
Manitoba
Quebec
Labrador
NORTH ATLANTIC OCEAN
Petropavlovsk
ALEUTIAN ISL.
-11.00
GULF OF ALASKA
Vancouver
NORTH AMERICA
Ontario
Newfoundland
-3.30
Toronto
Nova Scotia
AZORES
INTERNATIONAL DATE LINE
NORTH PACIFIC OCEAN
San Francisco
UNITED STATES
Pacific
Mountain
Central
Eastern
New York
Los Angeles
BERMUDA
TRUST TERRITORY OF THE PACIFIC ISLANDS
MIDWAY ISL.
-11.00
Wake Islands
-10.00
HAWAIIANS ISL.
MEXICO
BAHAMAS
MARSHALL ISLANDS
+10
CUBA
HAITI
-4
BR
-5.30
HONDURAS
JAMAICA
PUERTO RICO
Leeward Islands
CAPE VERDE ISL.
-2.00
GUATEMALA
NICARAGUA
Netherlands Antilles
Windward Islands
CENTRAL AMERICA
VENEZUELA
GUYANA
-3.45
SURINAM
-3.30
GUIANA (Fr.)
PACIFIC
GILBERT ISL.
EQUATOR
ELLICE ISLANDS
GALAPAGOS ISL.
ECUADOR
Manaus
BRAZIL
SOLOMON ISL.
-11.00
SAMOA ISL.
TUAMOTU
PERU
Acre
Recife
NEW HEBRIDES
FIJI ISLANDS
-10.30
SOUTH AMERICA
NEW CALEDONIA
+13.00
COOK ISL.
-10.00
BOLIVIA
TONGA ISLANDS
PARAGUAY
Rio De Janeiro
NORFOLK ISL.
+11.30
ARCHIPELAGO
TASMAN SEA
SOUTH
CHILE
URUGUAY
NEW ZEALAND
ARGENTINA
+12.45
CHATHAM ISL.
PACIFIC
INTERNATIONAL DATE LINE
FALKLAND ISLANDS
OCEAN
SCOTIA SEA
MIDNIGHT WHEN NOON AT GREENWICH
+11
+12
-11
-10
-9
-8
-7
-6
-5
-4
-3
-2
TIME ZONE CHART OF THE WORLD
165°
180°
165°
150°
135°
120°
105°
90
75°
60
45
30

STANDARD FREQUENCY & TIME SIGNAL STATIONS

The ordinary sw-listener soon notices a specialized technical prgr. of tones and time pulses usually received on carrier freq's of 2.5, 5, 10 or 15MHz and sometimes on 20 and 25MHz, if he listens in that part of the spectrum. These signals have many uses in science and technology. They are most useful to the non-specialist in obtaining accurate time, in checking the calibration of his radio receiver, and in gaining information on radio propagation conditions. The forecasts of the present and future state of the ionosphere can be quite useful in determining the possibilities of sw-reception. The forecasts are given by WWV and JJY for certain parts of the globe.

R. STATION WWV, WWVH, WWVB and WWVL (Gov.)
St. WWV, Box 83-E, Route 2, Fort Collins, Colorado 80521, USA; St. WWVH, Box 578, Puunene, Maui, Hawaii; WWVB/WWVL, Box 83-E, Route 2, Ft. Collins, Colo, USA—**L.P:** Chief Freq. and Time Broadc. See's: Peter P. Viezbicke. National Bureau of Standards, Boulder, Colo. 80302. Eng. in Charge: R. F. Carle (WWV, WWVB & WWVL); Eng. in Charge: S. Katahara (WWVH).
Standard Radio Frequencies:
WWV 2500kHz 2.5kW, 5000kHz 10kW, 10000kHz 10kW, 15000kHz 10kW, 20000kHz 2.5kW, 25000kHz 2.5kW; The broadc. are continuous, night and day exc. from 45 min 15 sec. to 49 min 15 sec. past each h—WWVH 2500kHz 1kW, 5000kHz 2kW, 10000kHz 2kW, 15000kHz 2kW: Continuous exc. from 16 min to 19.59 min after each h—WWVB 60kHz 13kW: Continuous WWVL 20kHz 1.8kW: Continuous, except for exp. changes.
Program:
WWV transmits radio propagation forecasts in International Morse Code every 5 min's just preceeding the voice ann's; the 1UWDS "Geoalert" is broadc. in International Morse Code each h from WWV during the first half of the 19th min and from WWVH during the first half of the 49th min. Greenwich Mean Time is ann. from st's in Intern. Morse Code each 5 min. At WWV a voice ann. of Greenwich Mean Time is given each 5 min. as follows: "National Bureau of Standards, WWV, Fort Collins, Colo. Next tone begins at ... hours, ... minutes Greenwich Mean Time". At WWVH a voice ann. of Greenwich Mean Time is given each 5 min. as follows: "National Bureau of Standards, WWVH, Maui, Hawaii. Next tone begins at ... hours ... minutes Greenwich Mean Time". WWVB transmits a special time code consisting of 10db carrier reductions each second for 0.2, 0.5 or 0.8 sec. (Format on request.) Transmitted phase will be advanced 45° for 5 min. each h between 10 min. and 15 min. after the hour. No special identification will be given. WWVL is still experimental and operates on 20kHz; also 19.9, 20.5 and 20.9kHz. WWVL current format: 20kHz from min. to min. +10 sec; 19.9kHz from min. +10 sec to min. +20 sec, then again. No other identification or codes used.—**V.** by QSL-card or letter. **Pub:** Prgr. sched. on request. In addition to the 20kHz carrier other exp. freq's near 20kHz may be transmitted alternately or simultaneously.

STATION LOL
Addr: Observatorio Naval, Avenida Costanera Sur 2099, Buenos Aires, Argentina.
Standard Freq. and Signals: 5000kHz 2kW, 10000kHz 2kW, 15000kHz 2kW: From 00.00 1st Sun in Oct. to 00.00 1st Sun in April: 11.00–12.00, 14.00–15.00, 17.00–18.00, 20.00–21.00, 23.00–24,00; From 00.00 1st Sun in April to 00.00 1st Sun in Oct: 12.00–13.00, 15.00–16.00, 18.00–19.00, 21.00–22.00, 00.00–01.00—**Schedule:** 3 min dash (1000 or 440cs alternately) beginning at 00.00, 00.05, 00.10 etc. Then 3xLOL in morse followed by "Observatorio Naval Argentina" followed by hrs & min's preceding dash tone. T.S. transmission at min. 55–59 in each h—**V.** by QSL-card or letter. Re. wanted.

STATION VNG—AUSTRALIAN POST OFFICE
Addr: Station VNG, c/o Assistant Dir. Gen, Radio Section, Postmaster General's Dept, 57 Bourke St, Melbourne 3000, Australia. **Cable:** "Gentel". **L.P:** Divisional Eng: R. Trainor.
Stations: Lyndhurst: 4500kHz 1kW 09.45–20.45; 7500kHz: 09.45–20.45(10kW), 21.00–09.30(1kW)—12000kHz 10kW: 21.00–09.30—The st. has bursts of 1000c/s tone 100 milliseconds long exc. the 59th second of each min. Immediately following the seconds pulse marking the hour a recording is played: "This is an Australian Post Office time signal tr. from VNG Lyndhurst, Victoria, in the 4.5, 7.5 or 12 megacycle bands"...**V.** by QSL-card.

MOUNT STROMLO OBSERVATORY
Addr: Mount Stromlo Observatory, Australian National University, Box 4, P.O. Canberra, A.C.T. Australia. **Te:** Mt. Stromlo 511. **Cable:** Solarob—**L.P:** Chief Time Sce: H. J. M. Abraham. Sen. Techn. Officer: J. N. Boots.
Stations: VHP2 4286kHz/VHP3 6428.5kHz/VHP4 8478kHz/VHP5 12907.5kHz/VHP6 17256.8kHz (all 10kW): 00.25–00.30, 07.55–08.00, 13.55–14.00, 19.55–20.00; VHP7 22845kHz 00.25–00.30, 07.55–08.00.

OBSERVATORIO NACIONAL, Brasil
Originates times signals, which are broadcast by stations PPE & PPR.
PPE: Addr: Serviço da Hora, Observatorio Nacional, Rua Gen. Bruce 586, Rio de Janeiro, GB ZC–08, Brasil—**L.P:** Chief Eng: C. G. Lacombe—**Station:** 8721kHz: 13.25–13.30, 20.25–20.30, 00.25–00.30.
PPR: Addr: Radio Rio, Av. Francisco Bhering, Arpoador, Rio de Janeiro, GB—**Stations:** 435, 8634, 13105, 17194kHz, 14.25–14.30, 21.25–21.30, 01.25–01.30.

DOMINION OBSERVATORY, Canada
Addr: 3 Observatory Crescent, Ottawa 4, Ontario, Canada. **Te:** 232-8211 — **L.P:** Adm: Dr. J. Hodgson. Dir. Tec: M. M. Thomson.
Stations: CHU 3330kHz 90.09m 3kW—7335kHz 40.90m 3kW—14670kHz 20.45m 3kW — **T.S:** Continuous by voice and seconds pulses.
Ann: English: "CHU Canada, Eastern Standard Time". French: "CHU Canada, Heure normale de l'est". **V.** by QSL-card. Re. welcomed.
Pub: Station information free.

STATION CCV, Chile
Addr: Instituto Hidrográfico de la Armada, Casilla 324, Valparaiso.
Stations: 8558/12960kHz: 11.55–12.00, 13.55–14.00, 15.55–16.00, 21.55–22.00, 00.55–01.00.

STANDARD FREQUENCY STATION OMA
Addr: Budecska 6, Praha 2, Vinohrady, Czechoslovakia. **Te:** 258758. **L.P:** Dir: B. Sternberk—**Stations:** OMA 50kHz 20kW: 24h—OMA 2500kHz 1kW: 24 h — OLB5 3170kHz 8kW: 24 h — OLD2 18985kHz 30kW directed to Far East: Wed, Fri 12.45–13.00 — **Ann:** In morse code — **V.** by QSL-card. Re. wanted.

CENTRE NATIONAL D'ETUDES DES TELECOMMUNICATIONS
FFH: Addr: 196, rue de Paris, 92 Bagneux, France. **Te:** 532-40-00. **L.P:** Chief Eng. Freq. Dept: P. la Maida. Chief Eng: B. Decaux.
Station: FFH 2500kHz 5kW: 08.00–16.25 (Mon–Fri)—**Ann:** in Morse on the 9th and 49th minute.

BUREAU INTERNATIONAL DE L'HEURE
Addr: 61 Avenue de l'Observatoire, Paris 14, France—**L.P:** Dir. B. Guinot—**Stations:** St. André de Corcy FTA91 91.15kHz 45kW: 08.00, 09.00, 09.30, 13.00, 20.00, 21.00, 22.30; Pontoise FTH42 7428kHz 6kW: 09.00, 21.00—FTK77 10775kHz 6kW: 08.00, 20.00—FTN87 13873kHz 6kW: 09.30, 13.00, 22.30—**V.** by letter.

ZLFS, LOWER HUTT, New Zealand
Addr: Physics & Engineering Laboratory, Lower Hutt, New Zealand.
Station: 2500kHz 0.3kW: CW only Wed 01.00–04.00—**Ann.:** St. identification is made in morse code at the beginning and end of each tr.

DCF77, MAINFLINGEN, Germany
Addr: Physikalisch-Technische Bundesanstalt, Braunschweig, Bundesallée 100, Fed. Rep. of Germany. **Cable:** "Bundesphysik". **Te:** 5921—**L.P:** Pres: Prof. Dr. Ing. M. Kersten. Dir. of Dept. 1: Prof. Dr. U. Stille; Dir. of Sect. 1/2: Prof. Dr. U. Adelsberger, Dr. Ohl, Dr. Süss—**Station:** DCF77 77.5kHz 12kW nd transm. extends essentially from 06.45–10.35, 19.00–20.10 and around every full h until midnight. Call-sign DCF77 in morse-code, amplitude modulations 440 and 200 c/s. Interruptions every second (duration 50 ms). **Pub:** Prgr. sched. on request.

GERMAN HYDROGRAPHIC INSTITUTE
Addr: P.O. Box 220, 2 Hamburg 4, W. Germany. **Te:** 311121. **Cable:** Hydrodienst. **L.P:** Head Time Sce: Dr. H. Enslin. Unmodulated time-signals at 23.55–00.06 on DAN–2614kHz(2kW), DAO–2775kHz(2kW), DAM–6475.5kHz(5kW)(21/3–20/9); DAM–12763.5kHz(15kW)(21/3–20/9); DAM–4265kHz(5kW) (21/9–20/3); DAM–8638.5kHz(10kW) (21/9–20/3); 11.55–12.06 on 2614, 2775, 8638.5, DAM–16980kHz (15kW).
LF transmissions: Unmodulated time signals at 07.01–07.10, 10.01–10.10, 19.01–19.10, 19.31–19.40, 20.01–20.10, 21.01–21.10, 22.01–22.10, 23.01–23.10, 00.01–00.10, 01.01–01.10, 02.01–02.10 on DCF77–77.5 kHz(12kW) (Sun 19.01, Sat 10.10; 01.01–01.10, 02.01–02.10 only 1/3–21/10)...
DAM = Elmshorn; DAO = Kiel; DAN = Norddeich; DCF77 = Mainflingen.

GERMAN GEODETIC INSTITUTE
Addr: DDR15 Potsdam, Telegrafenberg 17—**L.P:** Dipl. Ing. G. Hemmleb—**Station:** Nauen (DIZ) 4525kHz 5kW: 09.45–08.15.

NATIONAL PHYSICAL LABORATORY (Gov.)
Addr: Teddington, Middlesex, Gt. Britain. **Te:** 01–977 3222. **Cable:** Bushylab, Teddington. **Telex:** 262344.
MFS Standard Frequency Service:

kHz	m	kW	
60	5000	10	continuous
2500	120	0.5	continuous*
5000	60	0.5	continuous*
10000	30	0.5	continuous*

*continuous but tr. interrupted 6 times an h at mins 5–9½, 15–19½, 25–29½ etc.
Ann: Call sign given seven times in morse at minutes 9½–10, 19½–20, 29½–30 on the H.F. transmissions, and in the half minute preceeding the hour and half hour on the 60kHz transmission except between 14.30 and 15.30 when it is the same as the H.F. schedule—**V.** by letter.

ROYAL GREENWICH OBSERVATORY
Addr: Time Dept, Herstmonceux Castle, Hailsham, Sussex, England.
Te: Herstmonceux 3171. **Cable:** Observer.
The international Time Signals are radiated by GBR 16kHz (reserve: GBZ 19.6kHz) at 03.00, 09.00, 15.00 & 21.00 and on high freq's at 09.00 and 21.00. The freq's used are selected according to current ionospheric predictions. Freq's available: GIC24 4025kHz, GAY25 5807kHz, GIC27 7397.5kHz, GPB30B 10331.5kHz, GIC33 13555kHz, GIC37 17685kHz (Powers: GBR350kW, GBZ 250kW, others 15kW) — **V.** QSL-cards not available.

(continued page 58)

TURN-KEY PROJECTS
ALL OVER THE WORLD
TELEVISION & RADIO BROADCASTING
TELECOMMUNICATIONS
COMPLETE FILM PROCESSING
LABORATORIES
SOUND RECORDING FACILITIES
SURVEY
DESIGN
PLANNING
ENGINEERING
CONSTRUCTION
OPERATION
MAINTENANCE
RADIONICA
S.p.A.
Capital Lit.150.000.000
00197 – ROME – Italy
Cables: Radionica Rome
Telex: 61498
Telephone: 803106-802408

WORLD PUBLICATIONS

LINDORFSALLE 1, HELLERUP, DENMARK

offers you the following publications:

Improve your shortwave reception
A "how to build" handbook on shortwave equipments in order to obtain the best possible s.w. reception. Price: D.Kr. 18.50, US $2.75, £0/19/0, DM 10.85, sv. Kr. 13.75. Extra for transport: D.Kr. 1.75, US $0.25, £0/1/4, DM 1.00.

Short Wave Antennas
This handbook enables you to choose the best antenna for your purpose and consequently give you the best possible reception. Price: D.Kr. 9.75, US $1.25, £0/10/10, DM 6.00, Sv.Kr. 7.50. Extra for transport: D.Kr. 1.50, US $0.25, £0/1/6, DM 1.00.

The Radio TV Constructors Handbook
A "how to build" handbook containing descriptions of many different up-to-date equipments. Price: D.Kr. 29.75, US $4.35, £1/10/10, DM 17. 50, Sv. Kr. 20.00. Extra for transport: D.Kr. 2.50, US $0.35, £0/2/6, DM 1.30.

Transistors in Practice
Theory, Practice and "how to build" descriptions. Price: D.Kr. 29.75, US $4.35, £1/10/10, DM 17.50, Sv. Kr. 20.00. Extra for transport: D.Kr. 2.00, US $0.30, £0/2/3, DM 1.20.

How to build TV antennas
You can easily spare money by building your own TV-antenna—or improve your TV-reception by help of the descriptions etc. in this handbook. Price: D.Kr. 16.50, US $2.50, £0/17/10, DM 10.00, Sv. Kr. 12.50. Extra for transport: D.Kr. 1.65, US $0.25, £0/1/9, DM 1.00.

How to improve your TV-reception
You can easily correct many faults or irregularities in connection with your TV-reception by help of the illustrated descriptions in this handbook. Price: D.Kr. 7.00, US $1.00, £0/8/0, DM 4.75, Sv. Kr. 2.00. Extra for transport: D.Kr. 1.50, US $0.25, £0/1/6, DM 1.00.

(continued from page 56)

ATA, NEW DELHI, INDIA
Addr: National Physical Laboratory, New Delhi.
Stations: 10000kHz 2kW: 05.30–10.30.

IAM, ROME, ITALY
Addr: Istituto Superiore, Ministero P. T, Rome. **L.P:** Dir: Ing. F. Martorana—**Station:** 5000kHz 1kW—all day exc. Sun 07.30, 08.30; all day exc. Sat, Sun 13.00, 14.00. During summer 1h earlier.

IBF, TURIN, ITALY
Addr: Istituto Elettrotecnico Nazionale, Corso Massimo d'Azeglio 42, Torino. **Te:** 688773—**Stations:** 5000kHz 5kW: W 06.45–07.00, 08.45–09.00, 09.45–10.00, 10.45–11.00, 11.45–12.00, 12.45–13.00, 13.45–14.00, 14.45–15.00, 15.45–16.00, 16.45-17.00, 17.45–18.00 — **Ann:** Emissioni di frequenze e tempo campioni dall' Istituto Elettrotecnico Nazionale" — **V.** by QSL-card.

STATION JJY
Addr: Radio Research Laboratories, Koganei, Tokyo, Japan. **Te:** (0423)81-1661—**L.P:** Chief Freq. Standard Division. Y. Saburi—**Stations:** all 2kW nd, 24h: 2500kHz—5000kHz—10000kHz—15000kHz—All freq's are interrupted ar 29–34 min. past each h. Mod. seconds pulses of 8 cycles of 1600c/s and 1000c/s tone—**Ann:** At 34–35 min's & 59–00 min's in each h. identifying signals are tr. consisting of callsign in morse code (twice), time in JST once in morse code, callsign twice in voice, time in JST once in voice and grade of propagation warning in morse code—**V.** by QSL-card.

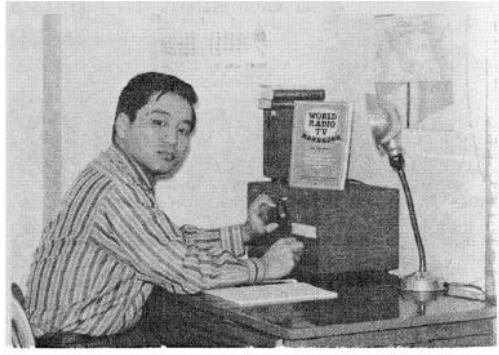
TOKYO ASTRONOMICAL OBSERVATORY
Addr: Mitaka-shi, Tokyo. **L.P:** Asst. Chief, Time Division. Dr. S. Iijima—**Station:** Oyama (Oyama-shi, Tochigi-ken) JAQ56 16170kHz 10kW: D 12.25–12.30 directed to Europe.

STATION OBC, PERU—Addr: Estación Central de Comunicaciones Navales Radio, Callao, Perú. **Stations:** OBC 490/12307kHz: 15.55–16.00, 18.55–19.00, 00.55–01.00.

REP. OBSERVATORY SOUTH AFRICA
Addr: Republic Observatory, Johannesburg. **Te:** 43–2026. **Cable:** Astronomer—**L.P:** Dir: J. Hers—**Stations:** Call ZUO: Olifantsfontein 5000kHz 4kW—Johannesburg 10000kHz 0.25kW—Johannesburg 100 MHz 0.050kW: 24 h per day, exc. for interruptions 15 to 20 min. past each h.
Time Signals: Continuous second pulses, consisting of 5 cycles of 1000c/s tone. The minute pulse is prolonged to about ½ second—**Ann:** In morse code every 15 min's (just before each quarter hours): ZUO, ZUO, ZUO followed by the Universal time of the next minute—**V.** by letter will be answered if they are genuine reports.

US NAVAL OBSERVATORY, Navy Department, Washington, DC. 20390, USA—**L.P:** Dir. Time Sce. Div: G. M. R. Winkler.
VLF Time Signals are aired from 55 to 60th min's as follows: **NSS** (Annapolis): each h on 21.4kHz. **NBA** (Canal Zone): each h exc. 23.55–24.00 on 24.0kHz—**HF Time Signals,** begin 5 min's before the hour and terminate on the h.
NSS (Annapolis): 04.55, 10.55, 16.55, 22.55 on 88kHz*, 5870, 8090, 12135, 16180kHz (*exc. Tues 16.55 when on 185kHz); 16.55, 22.55 on 20225 & 25590kHz—**NPG** (San Francisco): 23.55, 05.55, 11.55, 17.55 on 114.95kHz, 4010, 6428.5, 9277.5, 12966, 17288 & 22635kHz — **NPM** (Honolulu): 05.55, 11.55, 17.55 on 131.05kHz, 4525, 9050, 13655, 17122.4 & 22593kHz—**NPN** (Guam): 23.55, 05.55, 11.55, 17.55 on 484, 4955, 8150, 13530, 17530, 21760kHz—**NBA** (Canal Zone): 04.55, 10.55, 16.55, 22.55 on 147.85kHz, 5448.5, 11080 & 17697.5kHz.

Remember: The Danish DX-programme "The DX-Window" each Sun 10.30, and repeated Mondays 08.15, 12.45, 14.45, 19.15 and Tuesdays 01.45 GMT.



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T 20/5

BROADCASTS IN ENGLISH

Prepared by Roger Legge, Etlan, Virginia, U.S.A.

TO EASTERN AND CENTRAL NORTH AMERICA

a) Sat/Sun; b) Sun; c) Fri/Sun; d) Mon/Thurs/Sat; e) Tues/Wed/Fri/Sat; f) via Khabarovsk

Morning Broadcasts

EST	GMT	Station	kHz
6.00 AM	11.00	Bonaire, Neth. Antilles	11820
		Stockholm, Sweden	15315
7.00 AM	12.00	Melbourne, Australia	9580, 11710
		Peking, China	15095, 17735
7.15 AM	12.15	Montreal, Canada	9625, 11720
7.45 AM	12.45	Copenhagen, Denmark	15165
9.00 AM	14.00b	Prague, Czechoslov.	15445, 17840, 21450
		Quito, Ecuador (HCJB)	15115, 17880
		Stockholm, Sweden	21675
10.30 AM	15.30	London, England	21610

Afternoon Broadcasts

3.00 PM	20.00	Accra, Ghana	9760, 11850
4.00 PM	21.00	Hilversum, Holland	9715, 11730
4.15 PM	21.15	London, England	6110, 9580, 11780

Evening Broadcasts

5.00 PM	22.00	London, England	6110, 9580, 11780
		Moscow, USSR	7150, 9665, 9685
		Oslo, Norway (Sun)	11735, 11860
5.30 PM	22.30	Vilnius, USSR	9675, 9760
6.00 PM	23.00	Helsinki, Finland	15185
		London, England	6110, 9580, 11780
		Montreal, Canada	9625, 11720
		Moscow, USSR	7150, 7205, 9665, 9685
6.30 PM	23.30	R. South Africa	9705, 11875, 15220
6.45 PM	23.45	Tokyo, Japan	15135, 17825
7.00 PM	00.00	London, England	6110, 9580, 11780
		Moscow, USSR	7150, 7205, 9665, 9685
		Oslo, Norway (Sun)	9645, 11735
		Peking, China	17675, 17855
		Sofia, Bulgaria	9700
7.30 PM	00.30	Bonaire, Neth. Antilles	11820
		Budapest, Hungary	9833, 11910
		Kiev, USSR (d)	9665, 9685
		R. South Africa	9705, 11875, 15220
		Stockholm, Sweden	5990
		Tirana, Albania	6200, 7300
7.50 PM	00.50	Brussels, Belgium	6125
		Vatican City	6145, 9690, 11895
8.00 PM	01.00	Berlin (RBI), Germany	9500, 9730
		Havana, Cuba	9525, 15285
		London, England	6110, 9580
		Madrid, Spain	6130, 9760
		Melbourne, Australia	15320, 17840, 21740
		Moscow, USSR	7150, 7205, 9665, 9685
		Peking, China	7120, 9780, 15060, 17715
		Prague, Czechoslovakia	5930, 7345, 9630, 11990
		Rome, Italy	9575, 11810
8.30 PM	01.30	Berne, Switzerland	6120, 9535, 11715
		Bucharest, Rumania	6195, 9510, 11940
		Cologne, Germany	6185, 9640
		Hilversum, Holland	9590, 11730
		R. South Africa	9705, 11875, 15220
		Tirana, Albania	6200, 7300, 9500
8.45 PM	01.45	Copenhagen, Denmark	9520
9.00 PM	02.00	Cairo, UAR	9475
		Havana, Cuba	9525, 15285
		Lisbon, Portugal	6025, 9680, 11935
		London, England	6110, 9580
		Madrid, Spain	6130, 9760
		Melbourne, Australia	15320, 17840, 21740
		Moscow, USSR	7150, 7205, 9665, 9685
		Oslo, Norway (Sun)	9550, 9610
		Peking, China	15060, 17715, 17900
		Quito, Ecuador (HCJB)	9745, 11915, 15115
		Stockholm, Sweden	5990
9.30 PM	02.30	Beirut, Lebanon	11785
		Berlin (RBI), Germany	9500, 9730
		Bonaire, Neth. Antilles	9695
		R. South Africa	9705, 11875, 15220
		Tirana, Albania	6200, 7300
10.00 PM	03.00	Bucharest, Rumania	6195, 9510, 11940
		Budapest, Hungary	6235, 9833, 11910
		Buenos Aires, Argentina	9683 (Mon-Fri)
		Havana, Cuba	9525, 15285
		Lisbon, Portugal	9630
		London, England	6110, 9580
		Madrid, Spain	6130, 9760
		Moscow, USSR	7150, 9665, 9685, 9700
		Quito, Ecuador	9745, 11915, 15115
10.30 PM	03.30	Prague, Czechoslovakia	5930, 7345, 9630, 11990
		Tirana, Albania	6200, 7300
11.00 PM	04.00	Havana, Cuba	9525, 11760
		Lisbon, Portugal	6025, 9680, 11935
		Moscow, USSR	7150, 9665, 9685
		Oslo, Norway (Sun)	9610, 9645
		Quito, Ecuador	9745, 11915, 15115
		Sofia, Bulgaria	9700
11.30 PM	04.30	Bucharest, Rumania	6195, 9510, 11940
		Budapest, Hungary	6235, 9833, 11910
		Kiev, USSR (d)	7175, 9665
12.00 Mdt.	05.00	Havana, Cuba	11760
		Moscow, USSR	7150, 9665, 9685

TO WESTERN NORTH AMERICA

PST	GMT	Station	kHz
7.00 AM	15.00	Tokyo, Japan	9505
8.00 AM	16.00	Oslo, Norway (Sun)	17825, 21655
		Stockholm, Sweden	15310
		Tokyo, Japan	9505
12.00 N	20.00	Oslo, Norway (Sun)	11850, 15175
4.00 PM	00.00	Oslo, Norway (Sun)	11735
5.00 PM	01.00	Melbourne, Australia	15320, 17840, 21740
		Tokyo, Japan	17785
6.00 PM	02.00	Melbourne, Australia	15320, 17840, 21740
		Oslo, Norway (Sun)	9550, 9610
		Taipei, China	15125, 17720, 17780
		Tokyo, Japan	15235, 17825, 21640
6.30 PM	02.30	R. South Africa	9705, 11875, 15220
7.00 PM	03.00	Madrid, Spain	6130, 9760
		Moscow, USSR (f)	15140, 15180, 17880
		Peking, China	7120, 9780, 15095, 17675
		Seoul, Korea	15430
		Taipei, China	15125, 17720, 17780
		Tokyo, Japan	15105
7.20 PM	03.20c	Yerevan, USSR (f)	15180, 17790, 17880
7.30 PM	03.30	Berlin (RBI), Germany	6080, 9650, 9730
		Prague, Chechoslovakia	5930, 7345, 9630, 11990
		Stockholm, Sweden	11705
8.00 PM	04.00	Lisbon, Portugal	6025, 9680, 11935
		Moscow, USSR (f)	9540, 11755, 15180
		Oslo, Norway (Sun)	9550
		Peking, China	15095, 17675
		Sofia, Bulgaria	9700
		Tokyo, Japan	9505
8.15 PM	04.15	Bangkok, Thailand	11910
8.30 PM	04.30	Bucharest, Rumania	6195, 9510, 11940
		Budapest, Hungary	6235, 9833, 11910
		Kiev, USSR (d)	7175, 9665
8.45 PM	04.45	Berne, Switzerland	6120, 9720
		Cologne, Germany	6145, 9545
9.00 PM	05.00	Havana, Cuba	11760, 15285
		Moscow, USSR (f)	9540, 9735, 11755
		Tokyo, Japan	15105
10.00 PM	06.00	Buenos Aires, Argentina	9683 (Mon-Fri)
		Moscow, USSR (f)	9540, 9735, 11755
		Tokyo, Japan	9505
10.30 PM	06.30	Havana, Cuba	9655
11.00 PM	07.00	Moscow (f)	9540, 9735, 11755

BROADCASTS IN ENGLISH TO EUROPE

GMT	Station	kHz
03.00	Washington, U.S.A.	7200, 7270, 9740
04.00	London, England	200, 7120, 9765, 11905
	Washington, U.S.A.	7200, 7270, 9740
05.00	Washington, U.S.A.	7200, 7270, 9740
05.45	Lagos, Nigeria	15255
06.00	London, England	7210, 9825, 11945, 15435
	Washington, U.S.A.	7200, 7270, 9740
06.30	Monte Carlo, Monaco	7295
	Tirana, Albania	7135, 9500
06.45	Melbourne, Australia	9560, 11710
07.00	Berne, Switzerland (W)	6165, 9535
	London, England	7210, 9825, 11945, 15435
	Moscow, USSR	9710, 11890, 15360
	Prague, Czechoslovakia	6055, 9575
	Washington, U.S.A.	7200, 7270, 9740
07.10	Montreal, Canada	5990, 9625
07.30	Warsaw, Poland	9675, 11840
08.00	Tokyo, Japan	17825, 21535
11.00	Stockholm, Sweden	6065
11.30	Berne, Switzerland	9665, 11865
12.00	Moscow, USSR	11705, 15305, 17880
	Oslo, Norway (Sun.)	7240
	Prague, Czechoslovakia	9560, 11960, 15285
12.15	Montreal, Canada	17820
13.00	Bucharest, Rumania	15250, 17850
	London, England	9510, 11780, 11945, 15180

GMT	Station	kHz
14.00	Vatican City	9645, 11740, 15120
	Washington, U.S.A.	11960, 15205, 15225
14.30	Hilversum, Holland	6020
15.00	Lagos, Nigeria	15255
	Washington, U.S.A.	9760, 11960, 15205, 15225
15.30	Belgrade, Yugoslavia	7200, 11735, 15240
	Prague, Czechoslovakia	6055, 11990
16.00	Helsinki, Finland (Sun)	9550, 11805, 15185
	New York (WNYW), U.S.A.	17760, 21525
	Washington, U.S.A.	1196, 9760, 15205, 15225
16.30	Prague, Czechoslovakia	5930, 7345
	Tirana, Albania	7135, 9485
17.00	Lagos, Nigeria	15255
	London, England	7155, 9770, 11750, 15180
	New York (WNYW), U.S.A.	17760, 21525
	Washington, U.S.A.	1196, 9760, 15205, 15225
17.30	Berlin (RBI), Germany	6080, 7185, 7300, 9730
17.45	New Delhi, India	7215, 11620
18.00	Helsinki, Finland (W)	9550, 11805, 15185
	Kabul, Afghanistan	9635, 11745
	New York (WNYW), U.S.A.	17760, 21525
	Washington, U.S.A.	5965, 11960, 15205, 15225
18.15	Vatican City	7250, 9645, 11740
18.30	Belgrade, Yugoslavia	6100, 7200, 9620
	Tirana, Albania	7135, 9485
	Warsaw, Poland	6135, 7125
18.45	Quito (HCJB), Ecuador	11755, 15325
19.00	Djakarta, Indonesia	9585
	Hilversum, Holland	6020, 9590, 11730
	Johannesburg, So. Africa	17795, 21500
	Luxembourg, Luxembourg	1439, 6090
	Moscow, USSR	5980, 9710, 12020
	New Delhi, India	7215, 11620
	New York (WNYW), U.S.A.	15440, 17760
	Prague, Czechoslovakia	5930, 7345
	Washington, U.S.A.	5965, 11960, 15205, 15225
19.30	Baghdad, Iraq	6030, 6095
	Berne, Switzerland	6015, 9665
	Bucharest, Rumania	5990, 7195
	Sofia, Bulgaria	6070, 9660
	Warsaw, Poland	6135, 7125
19.35	Rome, Italy	6075, 7275, 9710
19.45	Karachi, Pakistan	7215, 9645
20.00	Belgrade, Yugoslavia	6100, 7200, 9620
	Hilversum, Holland	6020, 11730
	Moscow, USSR	5980, 9610, 12020
	New Delhi, India	7215, 9912, 11620
	New York (WNYW), U.S.A.	9690, 11970
	Tehran, Iran	11730, 15135
	Washington, U.S.A.	5965, 11960, 15205
20.15	Berlin (RBI), Germany	6080, 7185, 7300, 9730
20.30	Peking, China	6270, 7080, 11675
	Tirana, Albania	1394, 7135, 9485
	Tokyo, Japan	9700, 11965
	Warsaw, Poland	7145, 9675
20.45	Accra, Ghana	9545
	Lisbon, Portugal	6025, 7130
	Stockholm, Sweden	6065
21.00	Bonaire, Neth. Antilles	11775
	Lagos, Nigeria	15255
	London, England	6125, 7185, 9770, 12040
	Moscow, USSR	5980, 9710, 12020
	New Delhi, India	7215, 9912
	New York (WNYW), U.S.A.	9690, 11970
	Quito (HCJB), Ecuador	11755, 15325
	Washington, U.S.A.	5965, 11960, 15205
21.15	Jerusalem, Israel	9009, 9625, 9725
	Montreal, Canada	9610, 11720, 15320
21.30	Budapest, Hungary	6234, 7100, 9833
	Peking, China	6620, 7080, 11675
	Sofia, Bulgaria	6070, 9660
	Warsaw, Poland	7125, 9525
21.45	Cairo, U.A.R.	9475, 12005
22.00	Ankara, Turkey	15160
	Belgrade, Yugoslavia	1268, 6100, 7200, 9620
	Berlin (RBI), Germany	6080, 6115, 7300, 9730
	Moscow, USSR	5980, 9710, 12020
	New Delhi, India	7215, 9912
	Tirana, Albania	7135, 9485
	Wahington, U.S.A.	5965, 7205, 15205
22.30	Bucharest, Rumania	5990, 7195
	London, England	5975, 7185, 7230
	Warsaw, Poland	1502, 5995, 7280
22.45	Stockholm, Sweden	1178
23.00	Berlin (RBI), Germany	6080, 6115, 7185, 9730
	Buenos Aires, Argentina	11710 (Mon-Fri)
	Washington, U.S.A.	1196, 5965, 7205
	Warsaw, Poland	818
23.30	Budapest, Hungary	539, 3995, 6234

BROADCASTS IN ENGLISH TO AFRICA

C=for Central Africa; E=for East Africa; W=for West Africa.

GMT	Area	Station	kHz
03.00	E	London, England	9410, 12095, 15420
	E	Washington, U.S.A.	7195, 7280, 9530, 9750
03.30		Melbourne, Australia	15320, 17820
03.45	C	Berlin, Germany	11875
04.00		London, England	9410, 12095, 15420
		Washington, U.S.A.	7195, 7280, 9635, 9750
04.15	E	Johannesburg, So. Africa	11900, 15220
04.30	E	Cologne, Germany	9565 (via Kigali)
		Tirana, Albania	7300, 9485
04.45		Moscow, USSR	7110, 7290, 9710
05.00	E	Johannesburg, So. Africa	11900, 15220
		London, England	9410, 12095, 15420
		Washington, U.S.A.	7195, 7280, 9635, 9750
05.15		Brazzaville, Congo Rep.	5970, 9730, 11725, 15445
05.30		Addis Ababa (ETLF), Eth.	11890
05.45	W	Cologne, Germany	11905 (via Kigali)
		Lagos, Nigeria	7255, 15255, 21455
06.00		Cologne, Germany	11785, 15275, 17845
		London, England	9410, 12095, 15070
		Monrovia (ELWA), Liberia	11950
		Washington, U.S.A.	7280, 9530, 9750, 11740
06.15	W	Berlin, Germany	9570
		Brazzaville, Congo Rep.	5970, 9730, 11725, 15445
06.30		Moscow, USSR	11850, 15405, 17775
06.45		Johannesburg, So. Africa	15220, 17805
		Lagos, Nigeria	7275, 15255, 21455
07.00		London, England	9410, 9580, 11750, 15420
		Washington, U.S.A.	7280, 9535, 9750, 11740
		Oslo, Norway (Sun).	21655
09.00		London, England	15070, 17885, 21470, 25650
10.00		Berne, Switzerland	15305, 17855, 21520
		London, England	15070, 17885, 21470, 25650
		Moscow, USSR	15320, 17815, 21615
		Vatican City	17840, 21485
10.45	E	Cologne, Germany	11785 (via Kigali)
		Cologne, Germany	15275, 17875, 21560
10.50		Vatican City	17840, 21485
11.00	B	Brazzaville, Congo Rep.	11970, 15445
		Johannesburg, So. Africa	11900, 15220, 17805, 21535
		London, England	15070, 17705, 21470, 25650
11.55		Vatican City	17840, 21485
12.00		Cologne, Germany	17765 (via Kigali)
		London, England	15070, 17885, 21470, 25650
		Oslo, Norway (Sun)	21655
12.15	C	Berlin, Germany	21600
12.30		Stockholm, Sweden	21675
13.00		London, England	15070, 17885, 21470, 25650
		Warsaw, Poland	7125, 15275, 17865
13.15	W	Berlin, Germany	21555
13.30		Addis Ababa (ETLF), Eth.	15315
14.00		London, England	15070, 17705, 17885, 21470
		Oslo, Norway (Sun).	21655, 21730
		Washington, U.S.A.	15360, 15445, 17870, 21670
15.00		Accra, Ghana	17910, 21545, 21720
		Bucharest, Rumania	11810, 15380
		London, England	15070, 17705, 17885, 21470
		Washington, U.S.A.	15360, 15445, 17870, 21670
15,30		Lagos, Nigeria	7275, 9690, 15255, 21455
		Moscow, USSR	15375, 17850, 21605
		Prague, Czechoslovakia	11990, 15285, 17840, 21735
		Tirana, Albania	9485, 11858
16.00		Johannesburg, So. Africa	9525, 11785
		London, England	12095, 15070, 17885, 21470
		Oslo, Norway (Sun).	21655
		Peking, China	7350, 9860
		Washington, U.S.A.	15360, 15445, 17870, 21670
16.30		Lagos, Nigeria	7275, 9690, 15255, 21455
		Vatican City	11700, 15200
16.45		Accra, Ghana	15285
		Berlin, Germany	15340
	C	Cologne, Germany	9735 (via Kigali)
17.00		Addis Ababa (ETLF), Eth.	9695
		Dar Es Salaam, Tanzania	15435
		Lagos, Nigeria	7275, 11770, 15255, 21455
		London, England	9410, 12095, 15070, 17885
		Peking, China	7350, 9860
		Washington, U.S.A.	11970, 15360, 15445, 17870
17.10		Vatican City	11700, 15200
17.30		Cairo, UAR	17655
		Prague, Czechoslovakia	5930, 7345, 9600, 11990
		Tirana, Albania	7145, 9500
		Tokyo, Japan	7195, 9670
17.45	W	Cologne, Germany	17765 (via Kigali)
	E	New Delhi, India	15080
18.00		Addis Ababa (ETLF), Eth.	9705
		Dar Es Salaam, Tanzania	15435
		Johannesburg, So. Africa	17805, 21535
		London, England	9410, 12095, 15070, 17885
		Oslo, Norway (Sun).	15175, 21655, 21730
		Taipei, China	9685, 11825, 15125, 17890
		Washington, U.S.A.	11970, 15360, 15445, 17870
18.15		Accra, Ghana	15285
		Berne, Switzerland	11775, 15305
		Lisbon, Portugal	15340, 21495
18.30	W	Beirut, Lebanon	15350
		Lagos, Nigeria	7275, 11770, 15255, 21455
		Montreal, Canada	9610, 11720, 15320
		Moscow, USSR	1313, 9785, 11755, 15230
19.00		Addis Ababa (ETLF), Eth.	15425
		Hilversum, Holland	9715, 11730
		London, England	9410, 12095, 15070, 17885
		Moscow, USSR	7230, 9710
		New York (WNYW), U.S.A.	21525
		Sofia, Bulgaria	11950, 15310
		Stockholm, Sweden	15240
		Washington, U.S.A.	7195, 15445, 17870
19.15		Copenhagen, Denmark	15165

(continued page 62)

(continued from page 61)

GMT	Area	Station	kHz
19.15		Paris, France (via Brazzaville)	5970, 7105, 9730, 11930, 15190
19.30		Moscow, USSR	1313, 7230, 9785
		Peking, China	9440, 11695, 9965
		Tirana, Albania	7145, 9500
		Vatican City	11760, 15185
19.45		New Delhi, India	9690, 11775
20.00		London, England	9410, 12095, 15070, 17885
		Oslo, Norway (Sun).	11735
		Warsaw, Poland	9550, 11840
		Washington, U.S.A.	7195, 15445, 17870
20.10		Cairo, UAR	21440
20.30		Moscow, USSR	1313, 7230, 9710
		Peking, China	9440, 11695, 9965
21.00	W	Johannesburg, So. Africa	17805, 21535
		Lagos, Nigeria	7275, 9690, 11770, 15255
		London, England	7120, 9410, 12095, 15070
		Moscow, USSR	1313, 7230, 9710
		New York (WNYW), U.S.A.	21525
		Sofia, Bulgaria	11950, 15310
		Washington, U.S.A.	7195, 15445, 17870
21.30	W	Hilversum, Holland	15220 (via Bonaire)
21.45		Cologne, Germany	9735, 11925
22.00		London, England	7120, 9410, 12095, 15070
		Warsaw, Poland	7125, 9525, 11800
		Washington, U.S.A.	6035, 7195, 15445
22.30		Moscow, USSR	7130, 9450, 11850

BROADCASTS IN ENGLISH TO OCEANIA

AET—Australian Eastern Time. Add 2 hours for New Zealand time.

AET	GMT	Station	kHz
06.45	20.45	New Delhi, India	9912, 11740
07.00	21.00	London, England	7120, 9410, 12095
		Melbourne, Australia	11810, 11840, 15180
		Wellington, New Zealand	15110, 17770
07.10	21.10	Cologne, Germany	7290, 9765
08.00	22.00	London, England	7120, 9410, 12095
		Melbourne, Australia	11840, 15180
		Manila (FEBC), Philippines	17810
		New Delhi, India	9912, 11740
		Vatican City	9645, 11705
		Washington, U.S.A.	17820, 21610
08.45	22.45	Stockholm, Sweden	11790
09.00	23.00	Melbourne, Australia	11840, 15180
		Washington, U.S.A.	17820, 21610
16.00	06.00	London, England	7150, 9640, 11955
		Wellington, New Zealand	9540, 11780
16.45	06.45	Melbourne, Australia	9560, 11710, 15180
17.00	07.00	Berne, Switzerland	9590, 11775
		London, England	7150, 9640, 11955
		Prague, Czechoslovakia	9575, 15310, 21450
		Quito (HCJB), Ecuador	6050, 9745, 11915, 15115
		Tirana, Albania	7300, 9500
		Wellington, New Zealand	9540, 11780
17.30	07.30	Hilversum, Holland	9525, 9715, 11730
		Lisbon, Portugal	17880, 21495
18.00	08.00	Budapest, Hungary (Wed)	11910, 15160, 17795
		London, England	7150, 9640, 11955, 15070
		Melbourne, Australia	9560, 11710, 15180
		Oslo, Norway (Sun)	11735, 21730
18.15	08.15	Copenhagen, Denmark	15165
18.30	08.30	Montreal, Canada	5970, 9625
		Peking, China	11720, 15060, 17835
19.00	09.00	London, England	11750, 15070, 17790, 21550
		Manila (FEBC), Philippines	11890, 21515
		Melbourne, Australia	7190, 9560, 11710
		Quito (HCJB), Ecuador	6050, 9745, 11915, 15115
		Washington, U.S.A.	5955, 9735
		Wellington, New Zealand	9520, 11705
19.30	09.30	Peking, China	11720, 15060, 17835
		Tirana, Albania	9500, 11857
		Tokyo, Japan	11875, 15235
20.00	10.00	Johannesburg, So. Africa	15220, 17805, 21535
		London, England	11750, 15070, 17790, 21550
		Melbourne, Australia	7190
		New Delhi, India	15165, 17705
		Wellington, New Zealand	9520, 11705
20.15	10.15	Budapest, Hungary (Fri)	11910, 15160, 17795
20.30	10.30	Taipei, China	11825
21.00	11.00	Djakarta, Indonesia	9585
		London, England	11750, 15070, 17790, 21550
		Melbourne, Australia	7190
		Moscow, USSR	6050, 9755, 11690
		Washington, U.S.A.	5955, 9735
21.30	11.30	Vatican City	17820, 21490
22.00	12.00	Johannesburg, So. Africa	11900, 15220, 17805
		London, England	11750
		Melbourne, Australia	7190
		Oslo, Norway (Sun)	25730
		Washington, U.S.A.	5955, 9735
22.30	12.30	Moscow, USSR	6050, 9755, 11690
		Stockholm, Sweden	9605
23.00	13.00	London, England	11750
		Washington, U.S.A.	5955, 9735
23.30	13.30	Moscow, USSR	6050, 9755, 11690

BROADCASTS IN ENGLISH TO EAST ASIA

JST—Japanese Standard Time.

JST	GMT	Station	kHz
06.00	21.00	Melbourne, Australia	15240, 17715
		Seoul, Korea	9640
07.00	22.00	Melbourne, Australia	15240, 17715
		Rome, Italy	9710, 11905
		Ulan Bator, Mongolia	9540, 11850
		Washington, U.S.A.	7160, 9580, 11930
07.45	22.45	New Delhi, India	9615, 11965
		Stockholm, Sweden	11790
08.00	23.00	London, England	9725, 11955, 15435
		Melbourne, Australia	15240
		Washington, U.S.A.	9580, 11830, 15165
08.30	23.30	Manila (FEBC), Philippines	15385
09.00	00.00	Washington, U.S.A.	9580, 11830, 15165
		London, England	11955, 15435, 17880
16.00	07.00	Prague, Czechoslovakia	11800, 15310, 21450
17.15	08.15	Copenhagen, Denmark	15165
17.00	08.00	Oslo, Norway (Sun)	21730
17.45	08.45	Berne, Switzerland	11775, 15135
		Cologne, Germany	11785, 15275, 17845
18.00	09.00	London, England	11750, 15310, 17880
		Melbourne, Australia	11810, 15140
		Washington, U.S.A.	7165, 9565, 15345
19.00	10.00	London, England	11750, 17880, 21660
		New Delhi, India	15105, 17800, 21615
		Washington, U.S.A.	7165, 9565, 15345
19.30	10.30	Seoul, Korea	9640
20.00	11.00	London, England	11750, 17880, 21660
		Melbourne, Australia	11810, 15140
		Washington, U.S.A.	7165, 9565, 15345
20.30	11.30	Manila (FEBC), Philippines	11920
21.00	12.00	London, England	11750, 17880, 21660
		Melbourne, Australia	11810, 15140
		Oslo, Norway (Sun)	11850
		Washington, U.S.A.	7165, 9565, 15345
21.20	12.20	Ulan Bator, Mongolia	9540, 11850
21.30	12.30	Stockholm, Sweden	9605
22.00	13.00	London, England	11750, 15435, 17880
		Washington, U.S.A.	7165, 9565, 15345
23.00	14.00	Oslo, Norway (Sun)	9645
		Washington, U.S.A.	7165, 9565, 15345
00.00	15.00	Washington, U.S.A.	7165, 9565, 15345

BROADCASTS IN ENGLISH TO SO. AND SOUTHEAST ASIA

IST—Indian Standard Time; MT—Malaysian Time.

IST	MT	GMT	Station	kHz
04.00	06.00	22.30	Vatican City	9645, 11705
04.15	06.15	22.45	Melbourne, Australia	15220, 17870
			New Delhi, India	7235, 9740, 11710
04.30	06.30	23.00	Hanoi, Vietnam	7410, 11840
			London, England	9725, 11955, 15435
			Tokyo, Japan	15195
			Washington, U.S.A.	9545
05.00	07.00	23.30	Manila (FEBC), Phil.	15385
05.30	07.30	00.00	London, England	9725, 11955, 15435
			Melbourne, Australia	15220, 17870
			New Delhi, India	7235, 9740, 11710
			Tokyo, Japan	15195
			Washington, U.S.A.	15210, 17735
06.00	08.00	00.30	Karachi, Pakistan	11885, 15360
06.30	08.30	01.00	Melbourne, Australia	17870, 21540
			Tokyo, Japan	15195
			Washington, U.S.A.	7275, 11835, 15210
07.00	09.00	01.30	Colombo, Ceylon	15230
			Manila (FEBC), Phil.	17810
07.15	09.15	01.45	London, England	9410, 11955, 15375
07.30	09.30	02.00	Melbourne, Australia	17870, 21540,
			Tokyo, Japan	15195
			Washington, U.S.A.	7275, 11835
08.30	10.30	03.00	Cologne, Germany	9640, 11945
			Melbourne, Australia	17870, 21540
			Tokyo, Japan	15195
			Washington, U.S.A.	7275, 11835
09.30	11.30	04.00	Melbourne, Australia	17870, 21540
			Tokyo, Japan	15195
10.30	12.30	05.00	Hanoi, Vietnam	9840, 11840
			Melbourne, Australia	17870, 21540
			Tokyo, Japan	15195
10.45	12.45	05.15	Stockholm, Sweden	17845
11.30	13.30	06.00	Melbourne, Australia	17870, 21540
			Tokyo, Japan	15195
12.15	14.15	06.45	Berlin, Germany	21465
			Kuala Lumpur, Malaysia	6175, 11900, 15280
12.30	14.30	07.00	Melbourne, Australia	17870, 21540
			Tokyo, Japan	15195
13.30	15.30	08.00	Melbourne, Australia	17870
			Pyongyang, Korea	6540, 15520
			Tokyo, Japan	15195
14.00	16.00	08.30	Hanoi, Vietnam	9840, 11840
14.30	16.30	09.00	London, England	11750, 15310, 17880
			Melbourne, Australia	11880, 15320, 17870
			Tokyo, Japan	15195
			Washington, U.S.A.	11715, 11930, 15155
15.30	17.30	10.00	Hanoi, Vietnam	9840, 11840
			London, England	11750, 17790, 21660
			Manila (FEBC), Phil.	17810
			Melbourne, Australia	9570, 11880
			Moscow, USSR	11890, 15385, 17900, 21575

IST	MT	GMT	Station	kHz
15.30	17.30	10.00	Tokyo, Japan	11815
			Washington, U.S.A.	11715, 11930, 15155
16.00	18.00	10.30	Taipei, China	7130, 9575, 17890
16.15	18.16	10.45	Tokyo, Japan	9675, 11875
16.30	18.30	11.00	London, England	11750, 17790, 21660
			Manila (FEBC), Phil.	17810
			Melbourne, Australia	9570, 11880
			Moscow, USSR	11890, 15795, 17730
			Pyongyang, Korea	6480, 7580
			Tokyo, Japan	11815
			Washington, U.S.A.	11715, 15155
			Colombo, Ceylon	17830
16.45	18.45	11.15	Berlin, Germany	21540
17.30	19.30	12.00	Berlin, Germany	17880, 21540
			London, England	11750, 17790, 21660
			Melbourne, Australia	9570, 11880
			Peking, China	6520, 9480, 11675
			Tokyo, Japan	11815
			Washington, U.S.A.	11715, 11835, 15155, 15285
18.00	20.00	12.30	Colombo, Ceylon	7190, 15230
			Moscow, USSR	6050, 9755, 11690, 15130
18.15	20.15	12.45	Manila (FEBC), Phil.	15440
18.30	20.30	13.00	Hanoi, Vietnam	9840, 11840
			London, England	11750, 15435, 17880
			Melbourne, Australia	9570, 11880
			Peking, China	1340, 9480, 11675, 15095
			Tokyo, Japan	11815
			Washington, U.S.A.	7105, 11715, 11835, 15155
18.45	20.45	13.15	Berne, Switzerland	15305, 17845, 21520
			Cairo, UAR	17920
19.00	21.00	13.30	Addis Ababa (ETLF), Eth.	15315, 15400
			Berlin, Germany	21540
			Moscow, USSR	9755, 17825
			New Delhi, India	11810, 15335
19.15	21.15	13.45	Lisbon, Portugal	17895, 21495
19.30	21.30	14.00	Copenhagen, Denmark	15165
			Kabul, Afghanistan	4775, 7200
			London, England	7120, 9580, 11750
			Melbourne, Australia	9570, 11880
			Peking, China	6320, 7315, 15095
			Pyongyang, Korea	6480, 7580
			Stockholm, Sweden	11790
			Tirana, Albania	9500, 11857
			Tokyo, Japan	11815
			Washington, U.S.A.	11715, 15155, 15285
19.45	21.45	14.15	Ankara, Turkey	17820
20.00	22.00	14.30	Berlin, Germany	15125
			Djakarta, Indonesia	9585
			Hilversum, Holland	17810, 21480
20.30	22.30	15.00	London, England	7120, 9580, 11750
			Melbourne, Australia	9540, 11740
			Moscow, USSR	11785, 15130, 17710
			Peking, China	5030, 7315, 15095
			Tokyo, Japan	11815
			Washington, U.S.A.	11715, 15155, 15285
20.40	22.40	15.10	Vatican City	17885, 21530
20.45	22.45	15.15	Berlin, Germany	15125
21.00	23.00	15.30	Hanoi, Vietnam	9840, 11840
			Manila (FEBC), Phil.	15440
21.20	23.20	15.50	Cologne, Germany	15275, 17875
21.30	23.30	16.00	London, England	7120, 9580, 11750
			Melbourne, Australia	9540, 11740
			Moscow, USSR	11860, 15295, 17795
			Tokyo, Japan	9605
			Washington, U.S.A.	11715, 15155, 15285
22.30	00.30	17.00	London, England	7120, 9580, 11955
			Melbourne, Australia	9540, 11740
			Tokyo, Japan	9605
			Washington, U.S.A.	7105, 11835, 15285

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DX-PROGRAMMES

All prgr's are in English except where indicated.

AUSTRALIA: R. Australia. Sat 19.30, 22.00, Sun 04.30, 07.30, 13.00, 15.30, Mon 02.15 — **Japanese:** "DX Times" Sun 10.45 — **R. St. 3NE:** Sun 12.35 "World at Your Fingertips" (by Bob Padula, Australian Radio DX-Club).

BULGARIA: R. Sofia: Fri 19.30, 21.30, Sat 00.00, 04.00 — **German:** 1st and 3rd Sun 20.00.

CANADA: Canadian Broadcasting Corporation: "R. Canada Shortwave Club" Sat 12.21, 18.48, 21.24, 23.06; Sun 07.36, 08.36. **French:** Sat 07.45, 19.49; Sun 13.20, 20.25. **German:** Sun 18.00, 18.45 (BBC relay). **Portuguese:** Sat 23.30. **Spanish:** Sat 24.00. **Czech:** Sun (fortnightly) 14.45, 17.15. **Polish.** Sat 17.00, 21.00 (BBC relay), Sun 15.45. **Hungarian:** Sat 18.15.

CEYLON: Ceylon Broadc. Corpo: "DX-Panorama": 2nd & last Sat of month 11.00.

CZECHOSLOVAKIA: R. Prague: Wed 12.00, 16.30, 19.00, 22.00. To No. America: 2nd Fri (fortnightly) 01.00, 03.30, 07.00 (repeat for Far East and Australia). "Monitor Club" 4th Fri 01.00, 03.30, 07.00 — **German:** 1st Thurs 19.00, repeated following Thurs 08.00; For Austria: 3rd Sun 09.30, repeated following Tues 17.05.

DENMARK: Voice of Denmark: "The DX Window" Sun 10.30 and repeated in all English broadcasts on Mondays: 08.15, 12.45, 14.45, 19.15. Tues 01.45.

ECUADOR. R. St. HCJB: "DX Party Line", 1st and 3rd Mon/Tues of the month 21.00, 02.30; 1st and 3rd Wed of month 09.30. **Swedish:** Fri 20.30, Sat 05.30. **German:** Sat 06.00, 20.00.

FINLAND: Finnish Broadcasting Co: Wed 18.15, Sat 23.15, (presented by Finland's DX Club).

GERMANY: "Deutsche Welle": 2nd Mon/Tues 09.15, 15.20, 18.30, 19.45, 23.00, 01.00, 02.30, 04.15, 05.30.

Radio Berlin International: "RBI-DX Club": Mon/Tues 12.00, 12.15, 13.15, 13.30, 14.30, 15.15, 16.45, 17.30, 20.00, 20.15, 22.00, 01.00, 02.30, 03.30, 03.45, 06.15, 06.45, 11.15 — **German:** Mon 12.45, 14.00, Tues 00.45, 01.45, 04.15 — **Swedish:** Mon 17.00, 19.45 — **Italian:** Mon 16.30, 21.30.

Sender Freies Berlin: "Unser Kurzwellenbummel", every 4th Sat 22.05-22.20 and every 4th Sun 06.45-07.00 (repeat).

Deutschlandfunk: "MW 1268": Norwegian: Tues 20.10. **Swedish:** Wed, Sat 20.45.

GT. BRITAIN: BBC "World Radio Club": Sun 09.30, Mon 02.45, Thurs 12.45.

HAITI: R. 4VEH: "DX Corner" Thurs 03.00.

HOLLAND: R. Nederland Wereldomroep: "DX Jukebox" Thurs 07.42, 14.42, 19.12, 20.12, 21.12, 21.42, Fri 01.42.

HUNGARY: R. Budapest: Tues, Sat 21.30; Wed, Sun 00.30, 03.00; Wed, Fri 08.00, Fri 10.15 — **German:** Wed (twice monthly), 13.30 and repeat following Sat 23.00; Fri (2nd and 4th) 17.00 — **Italian:** Thurs (2nd) 20.15.

JAPAN: R. Japan: "DX-News": In "Listeners Corner" every 3rd Sat/Sun 08.25, 10.05, 20.55, 00.20, 02.35. Fortnightly in the weekly "Disk Jockey": Sun 10.55, 11.40, 16.40, 17.40.

KOREA (Rep): KBS: Last Thurs 03.15, 05.15, 06.15, 08.15, 10.45, 14.45, 21.15.

MONACO: TWR: "DX-Special". Sat 06.10. **Norea Radio:** "Oss Lyttere imellon" in Norwegian every last Fri of the month 17.00 (produced by DX Listeners' Club).

NETHERLANDS ANTILLES: Trans World Radio: "DX Special": Sun 03.35, Fri 12.05, 21.00.

NEW ZEALAND: R. New Zealand: "Arthur Cushens DX World", 1st Wed 06.45, 10.30 and repeated following Fri 14.15 and Sat 23.45.

POLAND: Polskie Radio: 1st Tues 18.30 — **Swedish:** Thurs 15.30, 18.00. **Finnish:** 2nd Thurs of month 16.00, repeated following Fri 20.00.

PORTUGAL: Emissora Nacional: "DX Club": Mon/Tues 07.45, 08.30, 14.00, 18.30, 21.00, 22.00, 23.00, 02.15, 03.15, 04.00. — **German:** 1st and 3rd Fri 07.45, 20.00, 21.15 — **French:** 1st and 3rd Thurs 17.30, 18.30, 22.00.

RUMANIA: R. Bucharest: Wed, Fri 19.30, 22.00, 22.30; Thurs, Sat 01.30, 03.00, 04.30 — **German:** Sat 12.00.

SO. AFRICA: R. South Africa: Wed 16.25, 17.25, 18.25, 21.25. **German:** Fri 20.15. **Dutch:** Thurs 21.15.

SWEDEN: R. Sweden: Tues 11.20, 12.50, 14.20, 16.20, 19.20, 21.05, 23.05, 23.35; Wed 00.50, 02.20, 03.50, 05.35 — **French:** Tues 09.50, 15.20, 18.20, 21.50; Wed 03.20, 06.05 — **German:** Wed 10.50, 17.50, 20.05, 23.05 — **Spanish:** Thurs 09.50, 21.50; Fri 00.20, 01.50 — **Portuguese:** Wed/Thurs 22.10, 00.40, 02.10 — **Russian:** Wed 08.50, 20.35, 22.35.

SWITZERLAND: SBC European and Overseas Service: "Swiss Shortwave Merry-Go-Round": Mon/Tues 07.50, 09.35, 10.50, 12.20, 14.05, 15.50, 19.05, 20.20, 02.20, 05.35.

U.S.A: R. New York World Wide: Sat 17.35, Sun 19.35.

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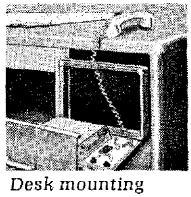

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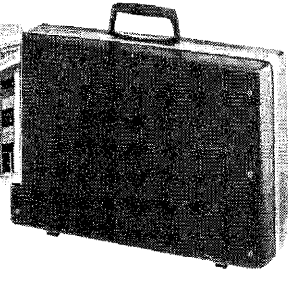

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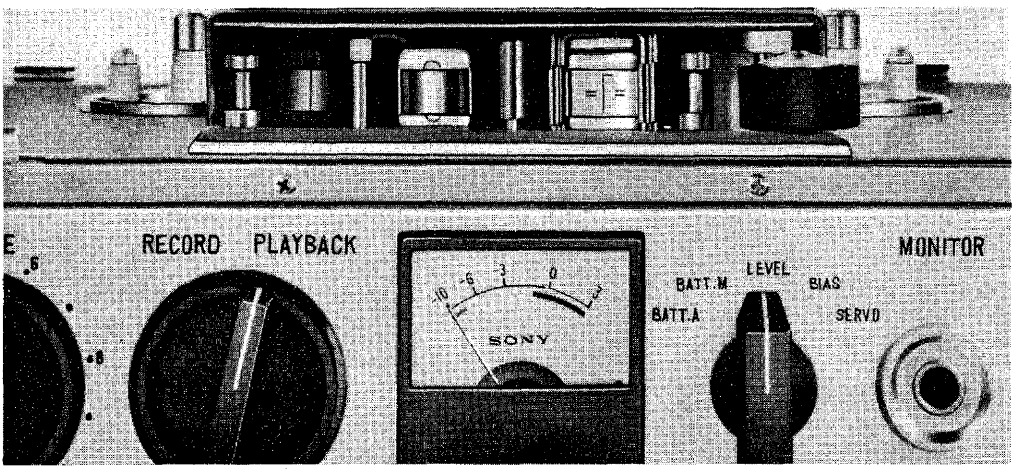

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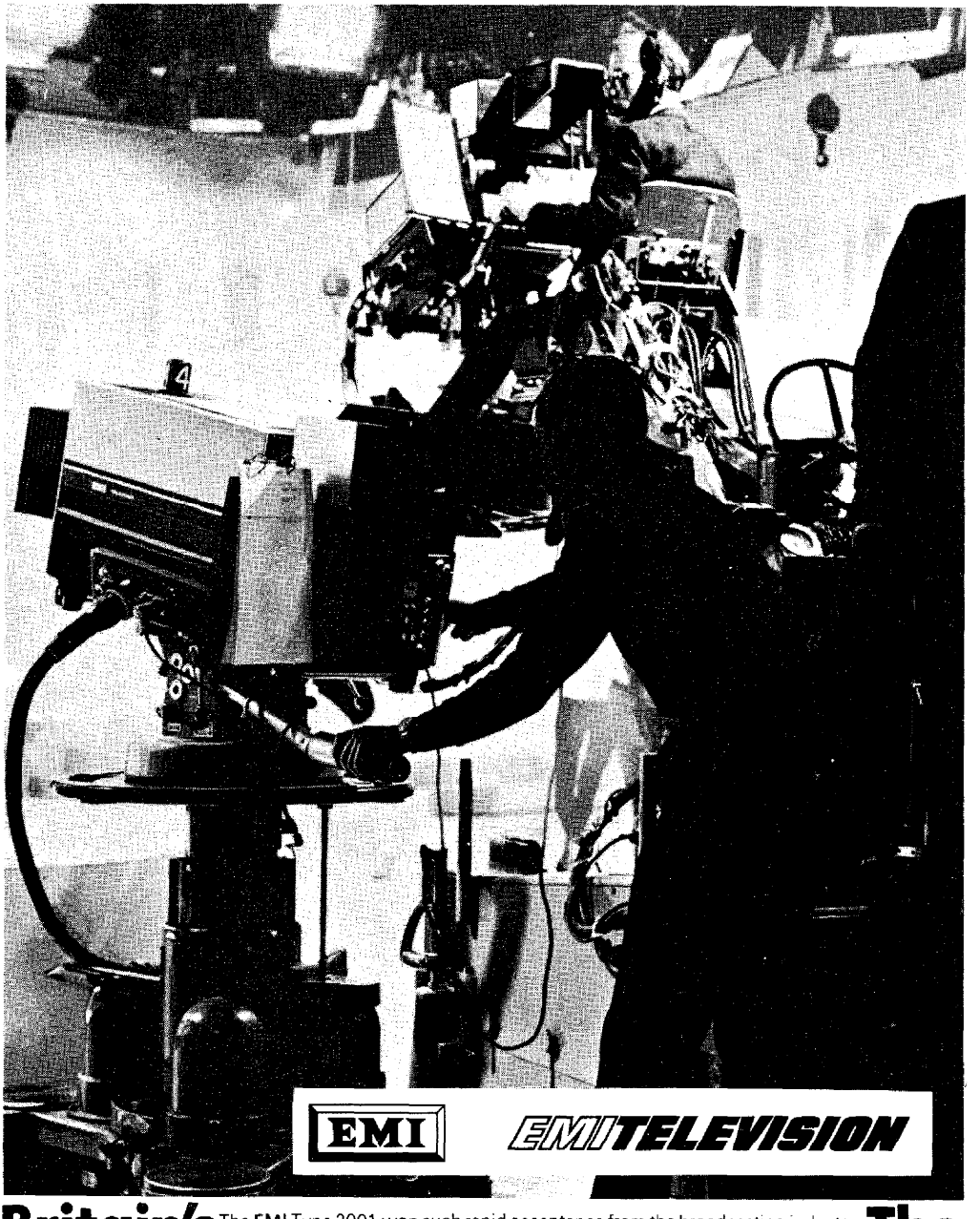

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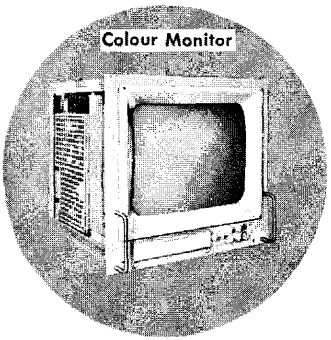
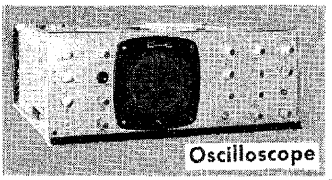
The **EMI** Type 2001 won such rapid acceptance from the broadcasting industry that, within a year of its introduction, orders worth over £3 million had been received for the camera and ancillary equipment. These included 68 cameras for the B.B.C.; 22 for London Weekend; 20 for A.T.V.; 14 for Thames Television; five for the Yorkshire T.V. Centre; four for Harlech T.V. and nine for Granada T.V. including O.B. vehicle. This is the camera with features that won for **EMI** the Queen's Award to Industry – unique features including the integral zoom lens and the capstan arrangement of the four pick-up tubes that makes this such a compact and perfectly balanced unit. The separate luminance channel together with sealed direct imaging optics ensures excellent colour registration and resolution and improved contrast. See the Type 2001 at IBC or write or telephone for a practical demonstration of EMITELEVISION colour capability. **EMI Electronics Ltd · Broadcast Equipment Division · Hayes · Middlesex · England Tel: 01-573 3888 · Telex 22417 · Cables Emidata London**

The award winning EMI 2001

TV STUDIO EQUIPMENT


Colour Monitor


Oscilloscope

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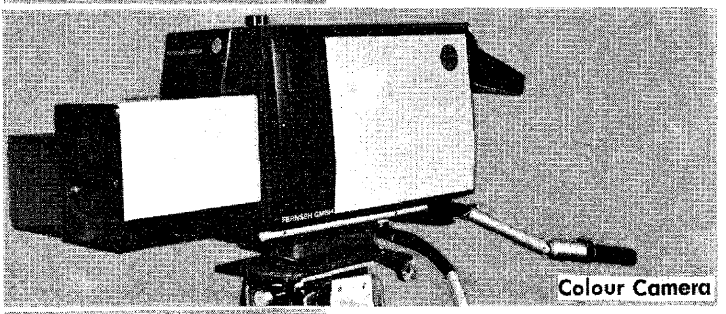
Colour Camera

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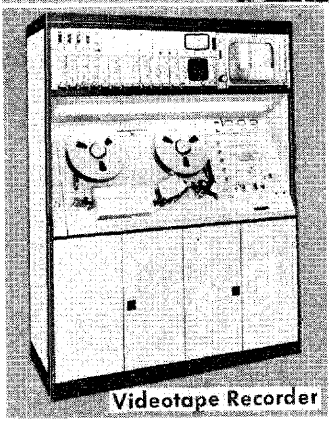
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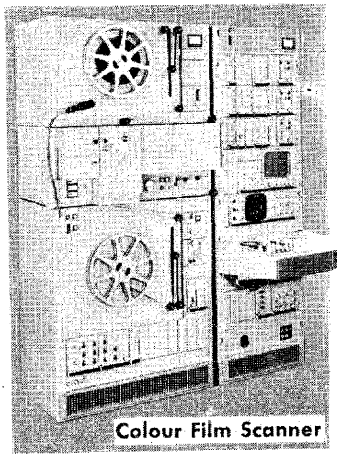
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DIRECT FREQUENCY DIALING

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• Ultra-precision tuning dial accuracy • Also accurately tunes standard AM Broadcast • Crystal lattice filter for adjacent station rejection and good audio frequency response • Dual conversion • Solid state AF output gives low distortion good frequency response • S-meter for signal strength indication • Preselector gives superior sensitivity by peaking antenna and RF stages • Crystal H. F. Oscillator for exceptional stability on all ranges • Amplified AVC—gives constant AF output for all signal strengths.

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SIZE—5½″ high, 10¾″ wide, cabinet depth 11⅝″, overall 12¼″. **WT.**—16 lbs.

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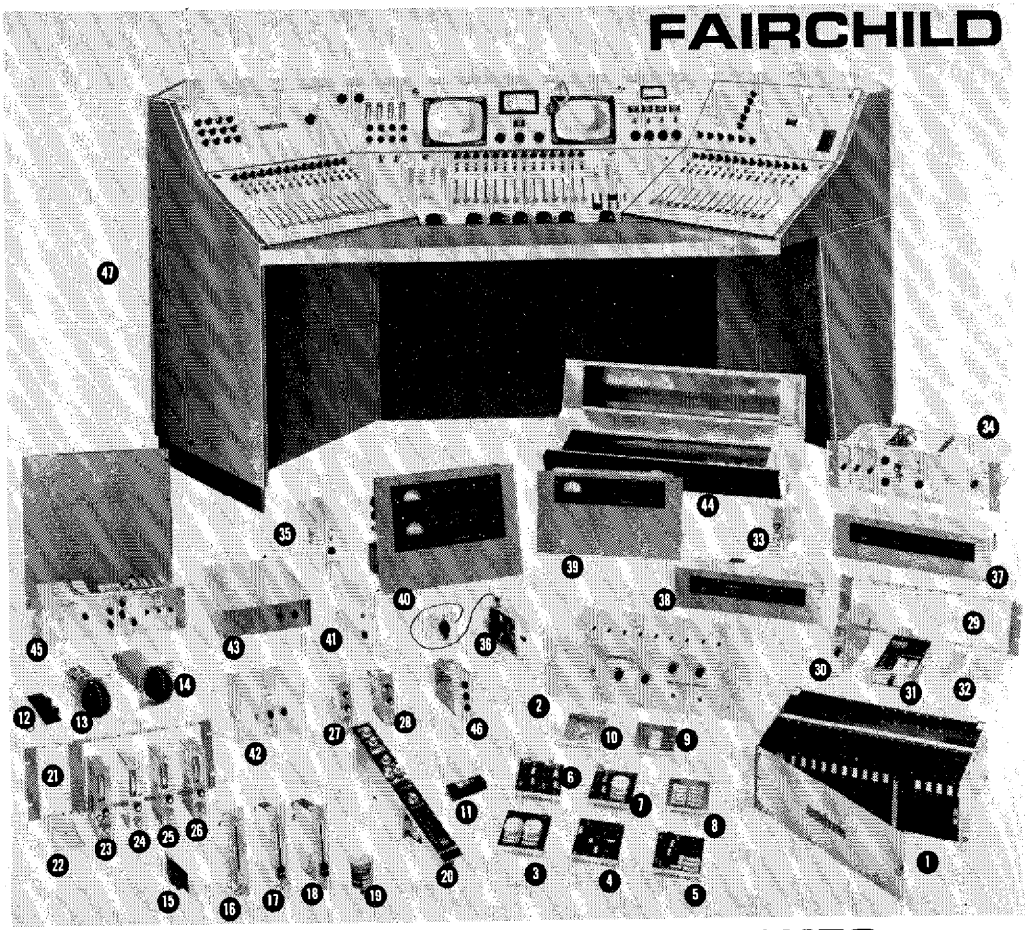

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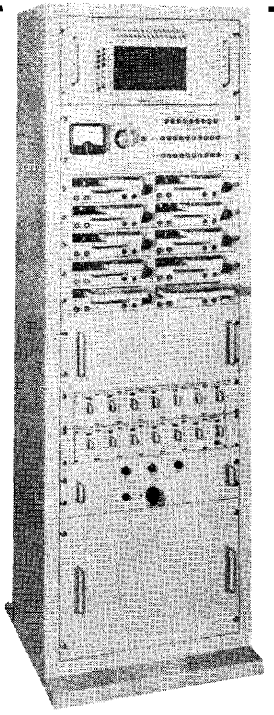

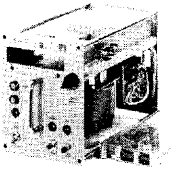

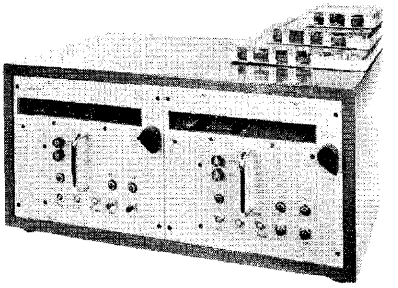

The complete line of endless loop professional tape reproducers for broadcasting stations

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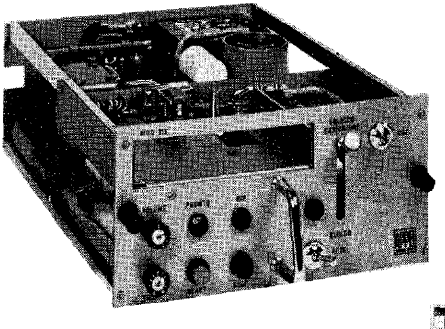

Model 314

- the most little endless tape reproducer.
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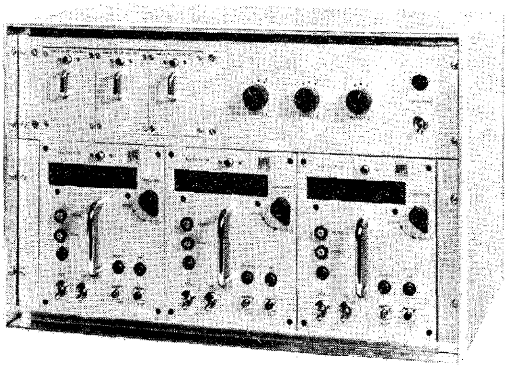

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- assembly of 3 professionals reproducers
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- transistorized plug-in modules.

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SHURE SM60

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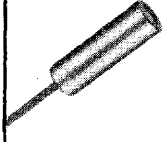
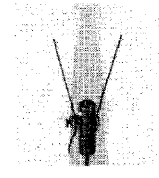
THE LAST WORD IN WEARABLE LAVALIER MICROPHONES . . . BY SHURE



Specifically designed for radio, TV, motion pictures . . . matches well in sound with stand or desk mounted units. Smoothly-contoured, machined-steel case and recessed grille for minimum clothing noise. Exclusive snap-in mounting of microphone for greater convenience, security. "Positive Lock" lavalier goes on in an instant—provides simple, noiseless position adjustment. Extra-flexible, kink-free rubber cable is easily replaceable.



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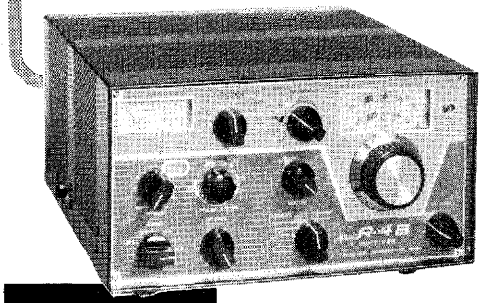

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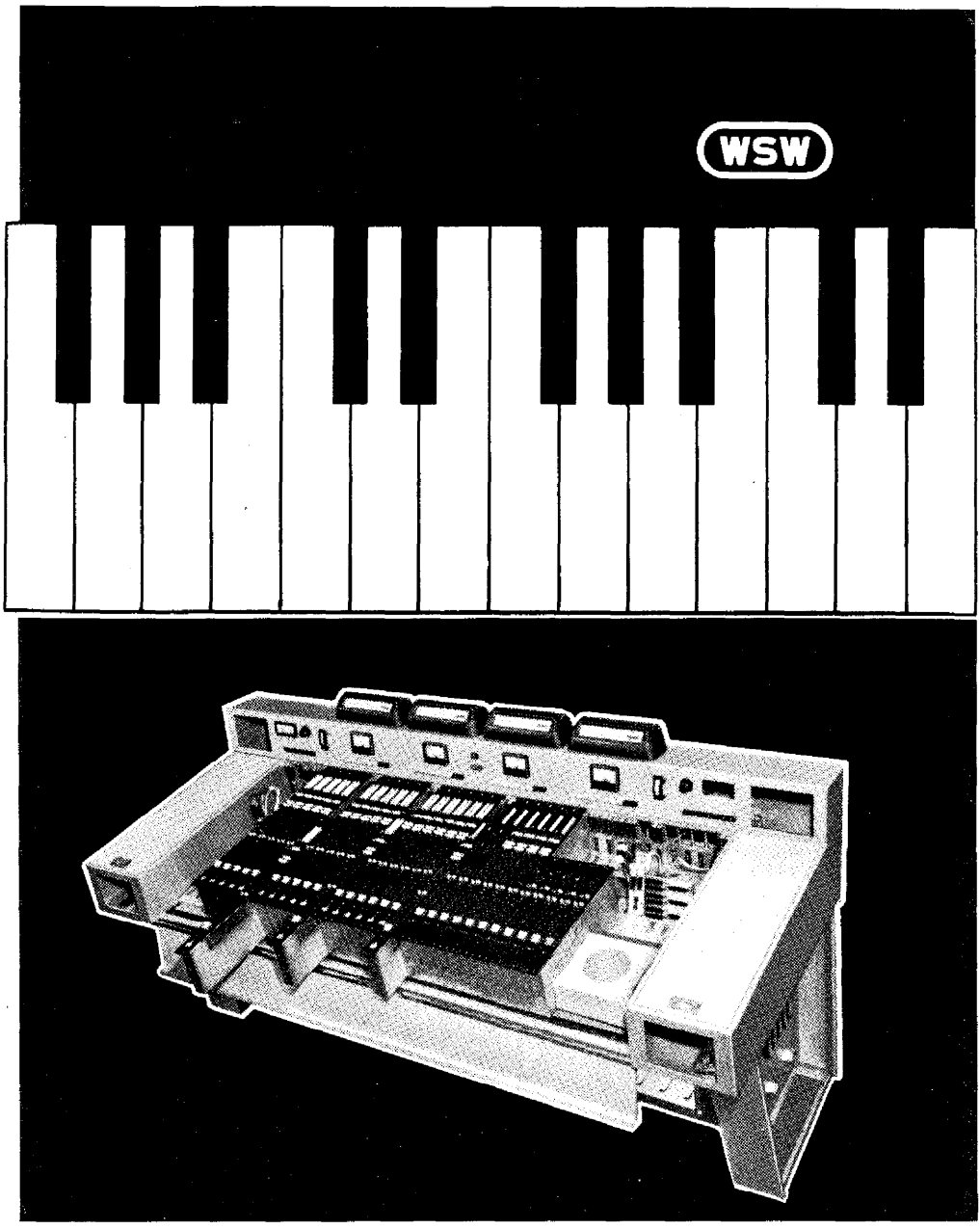

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65°
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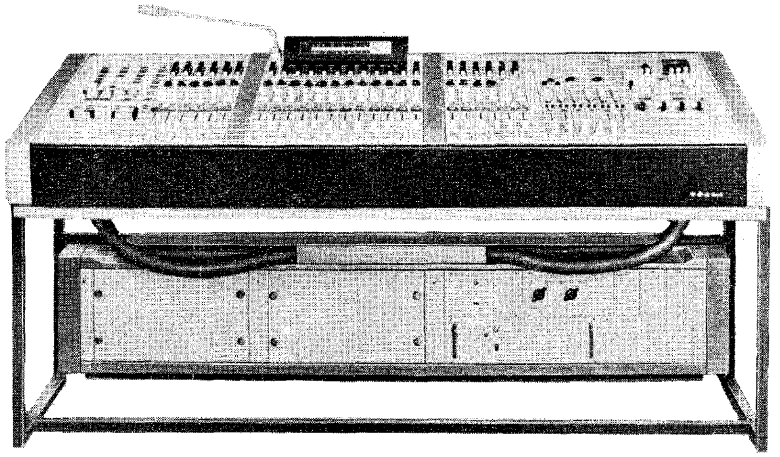
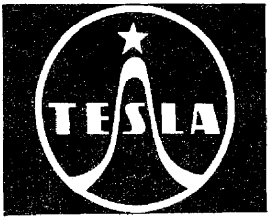


BROADCAST AND TV EQUIPMENT



High-efficiency short-wave broadcasting transmitters from 1 to 100 kW output

Medium- and long-wave broadcasting transmitters from 20 to 1000 kW power output

Short-wave communication transmitters of 35 kW power rating, with SSB for transmission of two independent speech channels

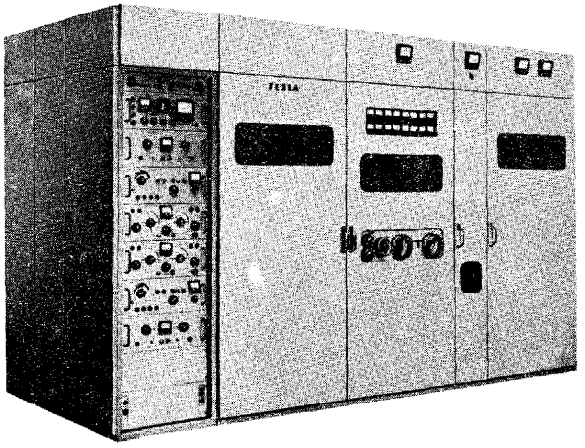
Short-wave and long-wave telegraph transmitters of 50 kW and 70 kW power output

Television transmitters for bands I and III as well as IV/V, with power klystrons

Fully transistorized studio equipment

New types of modern design and high efficiency. Projects and installations of complete transmitting centres

Detailed information will be gladly furnished on request



KOVO

Foreign Trade Corporation, Tř. Dukelských hrdinů 47, Praha 7, Czechoslovakia

CENTRAL EUROPE
1:8 Mill.
KM
0 50 100 200 300
North Sea
Baltic Sea
Adriatic Sea
HOLLAND
BELGIUM
LUXEMBOURG
SAAR
GERMANY
POLAND
U.S.S.R.
CZECHO-SLOVAKIA
AUSTRIA
HUNGARY
RUMANIA
BULGARIA
YUGOSLAVIA
ITALY
SWITZERLAND
FRANCE
MONACO
KIEL
LÜBECK
HAMBURG
BREMEN
OLDENBURG
N. OSTERLOOG
HOOGEZAND
SCHWERIN
WÖBBELIN
GREIFSWALD
STRALSUND
SZCZECIN
GDAŃSK
OLSZTYN
TORUŃ
POZNAŃ
WARSZAWA
ZIELONA GÓRA
ŁÓDŹ
WROCŁAW
KIELCE
KATOWICE
RZESZÓW
LVOV
KRAKÓW
OSTRAVA
OUCHGOROD
TJERNOVTSY
KOŠICE
MISCOLC
NYIREGYHAZA
BRATISLAVA
WIEN
BRNO
OLOMOUC
PARDUBICE
HRADEC KRÁLOVÉ
PRAHA
KARLOVY VARY
ÚSTÍ N. L.
DRESDEN
CHEMNITZ
LEIPZIG
BERNBURG
COTTBUS
GÖRLITZ
KÖNIGWUSTERHAUSEN
POTSDAM
BERLIN
RHEINSBERG
DEGUEDE
HANNOVER
BRAUNSCHWEIG
HARZ
BROCKEN
GÖTTINGEN
INSELSBERG
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MEISNER
SUHL
PLAUEN
HOF
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REGENSBURG
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PASSAU
LANDSHUT
AUGSBURG
ISMANING
MÜNCHEN
LINZ
KRONSTORF
SALZBURG
HOLZKIRCHEN
RAVENSBURG
SIGMARINGEN
KIRCHHEIM
DÜRRHEIM
BAD
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BREGENZ
KEMPTEN
ALDRANS
LAUTERACH
BEROMÜNSTER
SOOL
BASEL
CHUR
SOTTENS
LIENZ
MERANO
BOLZANO
KLAGENFURT
DOBL
GRAZ
MARIBOR
UDINE
LJUBLJANA
TRIESTE
KOPER
RIJEKA
ZAGREB
VENEZIA
VERONA
MILANO
TORINO
GENOVA
BOLOGNA
FIRENZE
PISA
SAN REMO
MONTE CARLO
NICE
MARSEILLE
MONTPELLIER
NIMES
LYON
AOSTA
GRENOBLE
ANNEMASSE
SAVIESE
MONTE CENERI
BESANÇON
DIJON
NANCY
STRASBOURG
MÜHLACKER
REUTLINGEN
STUTTGART
BADEN-BADEN
HEILBRONN
HEIDELBERG
SAARBRÜCKEN
KAISERSL.
FELSBERG
LUXEMBOURG
MAINZ
FRANKFURT
CORBURG
WÜRZBURG
NÜRNBERG
PARIS
LILLE
ORTRIJK
BRUXELLES
HOUDENG
LIEGE
EIFEL
MARCHE
AACHEN
BONN
KÖLN
JÜLICH
MÖNSCHAU
KOBLENZ
SIEGEN
NORDHELLE
LANGENBERG
MÜNSTER
KLEVE
LOPIK
HILVERSUM
HENGELO
OSNABRUCK
HERFORD
TEUTOBG. WALD
HAMBURG
LÜBECK
HEIST
BALTERHAVEN
MARLOW
SONNBERG
BIAS
BURG
SIBIU
BRAŠOV
CLUJ
ORADEA
SZOLNOK
SZABADSAG
SZOMBATHELY
PÉCS
BALATONSZABADY
GYÖR
KOSSUTH
BUDAPEST
PETŐFI
MIERCUREA
OR. STALIN
TIMIŞOARA
OSIJEK
NOVI SAD
BEOGRAD
CRAIOVA
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RADIO

EUROPE

ALBANIA

L.T: GMT + 1 h — **Pr. L:** Albanian.

RADIODIFFUSION TELEVISION ALBANAISE (Gov.)
ADDR: Rue Ismail Quemal, Tirana. **Te:** 3239. **Cable:** Albradio. **L.P:** Dir. Th. Nano. Head Foreign Rel. Dept. K. Xhavara.
STATIONS: 50/100/120/240/500kW.

kHz	m	kHz	m	kHz	m	kHz	m
557	538.6	6135	48.90	7120	42.13	9780	30.67
1088	275.7	6157	48.72	7265	41.29	11740	25.55
1214	247.1	6195	48.43	7300	41.09	11840	25.34
1394	215.2	6200	48.39	7315	41.01	11860	25.30
5960	50.34	7065	42.46	9390	31.95	11920	25.17
6097	49.20	7090	42.31	9507	31.55		

HOME SCE. in Albanian: On 1088/7065Hz: W 04.30-07.00, 11.00-22.00; Sun 05.00-22.00.
FOREIGN SERVICE
Each tr of 30 min's duration.
Winter schedule not to hand at time of printing.

Albanian
00.00*
02.00*
06.00
12.30****
13.30
18.30

Arabic
03.30
04.30
06.00
15.30
17.00
19.00
20.00

Bulgarian
03.00
04.00
12.00
14.00
15.30
17.00
19.00
21.00

Czech
06.00
14.00
15.30
17.30
19.00
22.30

English
00.30*
01.30*
02.30*
03.30*
06.30
11.00*
16.30
18.30
20.30
22.00
07.00*****
09.30*****
14.00*****
04.30***
15.30***
17.30***
19.30***

French
05.00
14.30
16.00
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21.00
22.30

German
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12.00
13.30
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German
18.00
20.30
22.00

Greek
03.30
04.30
13.00
14.30
16.30
19.30

Hungarian
06.30
13.00
16.00
20.00
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22.00

Indonesian
23.00
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14.30
06.30
21.30

Italian
05.30
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22.30

Polish
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Portuguese
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23.30**
01.00**
02.00**
10.00**

Russian
23.00
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04.00
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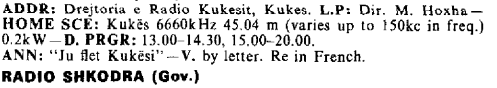
16.30
17.30
18.30
19.30
20.30

Serbo-Croat
05.00
12.30
14.00
16.00
17.30
20.00
22.00

Spanish
05.30
18.00
21.00
23.30**
01.00**
02.00**
11.30**
16.00**

* = to No. America; ** = to Latin America; *** = to Africa; **** = to Asia; ***** = to Australia.
ANN: Albanian: "Ju flet Tirana". Arabic: "Huna Tirana". Bulgarian: "Goveri Tirana". E: "This is Tirana Calling". F: "Ici Tirana". G: "Hier ist Tirana". Greek: "Milun Ta Tirana". I: "Parla Tirana". Czech: "Vola Tirana". Hungarian: "Itt Tirana beszeel". Polish: "Tu mowi Tirana". Portuguese: "Fala Tirana". Russian: "Govorit Tirana". Serbo Croat: "Govori-Tirana". Sp: "Habla Tirana" Indonesian: "Disini Tirana. V. by letter.
INT-SIG: 9 notes played on two trumpets.



V by QSL-card or letter.

RADIO KUKESI (Gov.)
ADDR: Drejtoria e Radio Kukesit, Kukes. **L.P:** Dir. M. Hoxha — **HOME SCE:** Kukës 6660kHz 45.04 m (varies up to 150kc in freq.) 0.2kW — **D. PRGR:** 13.00-14.30, 15.00-20.00.
ANN: "Ju flet Kukësi" — **V.** by letter. Re in French.

RADIO SHKODRA (Gov.)
ADDR: Drejtoria e R. Shkodrës' Shkodër — **L.P:** Dir: A. Ceno — **STATION:** Shkodër 8215kHz 36.52m 0.2kW. 1300kHz 231m 0.2kW — **HOME SCE:** D 05.00 06.30, 13.00 14.00, 16.30-20.00 — **ANN:** "Ju flet Shkodra" or "R. Shkodra" — **V.** by letter. Reports in English and German accepted.

RADIO KORCA
ADDR: Drejtoria e R. Korçes, Korçe — **L.P:** Dir: A. Trebicka. **STATION:** 1349kHz 222m 0.2kW — **HOME SCE:** 12.30-14.15, 16.30-20.00 — **ANN:** "Ju flet Korça"

RADIO GJIROKASTRA
ADDR: Drejtoria e R. Gjirokastres, Gjirokaster — **L.P:** Dir: S. Zerva — **STATION:** 1275kHz 203.4m 0.2kW — **HOME SCE:** 13.00-14.30, 16.00-20.30 — **ANN:** "Ju flet R. Gjirokastra"

ANDORRA

L.T: GMT + 1 h — **Pr.L:** French, Spanish, Catalan.

RADIO ANDORRA (Priv. Comm.)
ADDR: Direction & Station: Roc des Anelletes, Andorre la Vieille, Principality of Andorra. **Te:** 100. **Cable:** Randorra — **L.P:** Dir. Gen: M. Degoy. Dir. Tec: J. L. Marquet. Dir. Prgr: G. Marquet. French Dept: J. Bonis. Spanish & Catalan Dept: R. Calderer & G. Osorio Pub. Dept: M. Rodriguez. Listeners Sce: C. Codina.
STATIONS: 701kHz 428m 300kW — 5995kHz 50.04m 25kW.
HOME SCE: 05.00-24.00 — **French:** 05.00-20.00; **French/Spanish:** 20.00-21.00. **N:** on the h.
ANN: French: "Ici R. Andorre". Sp: "Aqui R. Andorra, emisora del Principado de Andorra, Roc de les Anelletes, Andorra la Vieja Principado de Andorra".
INTERNATIONAL SCE:
L.P: Dir. Gen: M. Degoy. Dir. Tec: P. Cousse. Dir. Prgr: A. Rossell. Publ. Dept: C. Valencia. Listeners Sce. J. Tellez.
D.PRGR: 21.00-24.00 on 5995kHz. Int. Prgr. for Europe (relay mw-prgr).
ANN: F: "Ici R. Andorre International". E: "This is R. Andorra International". Sp: "Aqui R. Andorra Internacional, emisora del Principado de Andorra". G: "Hier ist R. Andorra".
INT-SIG: Gong low. Open and close down "National hymn of Andorra" — **V.** by QSL-card or letter. Rp. Recordings accepted.
PUB: Prgr. schedule (weekly).

SUD RADIO (Radio des Vallées d'Andorre)
ADDR: P.O. Box 7, Andorre-la-Vieille (Principauté d'Andorre). **Te:** 20260. **Cable:** Radioval.
STATIONS: 818kHz 366.8m 300kW — **FM:** 98.9MHz 0.05kW.
HOME SCE. in French: 04.45-24.00. **N:** every h on the half h — **INT-SIG:** "Coucou" (every h) — **ANN:** F: "Vous écoutez Sud-Radio" — **V.** by QSL-card and letter. Rp — **PUB:** Prgr. schedule (weekly).

AUSTRIA

L.T: GMT + 1 h — **Pr.L:** German.

OESTERREICHISCHER RUNDFUNK (G.m.b.H.)
ADDR: 1041 Wien, Argentinierstr. 30a. **Te:** 656661. **Cable:** Rundfunk — **L.P:** General Intendant: G. Bacher; Kaufmännischer Dir: H. Lenhardt; Techn. Dir: Dr. G. Skalar; Dir. Prgr's (Radio): Dr. A. Hartner; Dir. Prgr. (TV): Prof. Dr. H. Zik.
STUDIOS: Steiermark: Zusertalgasse 14a, Graz III. **Cable:** Radio Graz. E. Breisach. **Kärnten:** Sponheimerstr. 13, Klagenfurt. **Cable:** Radio Klagenfurt. Prof. P. Goritschnig. **Oberösterreich:** Obere Donaulände 1, Linz. **Cable:** Radio Linz. A. Schwetz. **Salzburg:** Prof. P. Becker. **Tirol:** Landhaus Neubau, Innsbruck. **Cable:** Radio Tirol. H. Hauser. **Vorarlberg:** Neues Rathaus, Dornbirn. **Cable:** Radio Vorarlberg. Dr. W. Tözler. **Wien:** Argentinierstr. 30a, Wien IV. **Cable:** Radio Wien. Dr. E. Glaser. **Niederösterr:** Hasslinger. **Burgenland:** E. Lassman.

HOME SERVICES
ÖSTERREICH I: 05.00-23.05.
Medium Waves:

	kHz	m	kW		kHz	m	kW
Aldrans I	520	576.9	10	Wien I	584	513.7	150
Lienz I	520	576.9	10	Dobl I	1025	292.7	100
Liezen I	520	576.9	10	Kronstorf I	1025	292.7	100
Klagenfurt I	584	513.7	25	Lauterach I	1025	292.7	10
Salzburg I	584	513.7	10	Mariapfarr I	1025	292.7	5

Low Power M.W: (0.05kW): 520kHz: Bludenz, Murau — **584kHz:** Mayrhofen — **944kHz:** Unzmarkt — **962kHz:** Ehrwald, Neukirchen, Neumarkt, Eisenerz, Gmünd, Hallstatt, Obervellach, Rauris, St. Anton, Prutz — **1025kHz:** Hermagor, Otz, Kitzbühel, Mühlbach, Achenkirch, Scharnitz, Zell am Ziller, Nauders, Radentbein — **1052 kHz:** Eisenkappel, Hopfgarten, Längenfeld, Bad Goisern, Gmünd (Nö), Oberwölz, Spittal, Pfunds — **1088kHz:** Grossar, St. Lambrecht, Schruns — **1142kHz:** Bad-Aussee, Bad Ischl, Landeck, Reutte, Saalfelden, Abtenau, Scheifling, Neuberg, Mittersill, St. Gallenkirch, Zwettl, St. Gallen, Mallnitz — **1151kHz:** Judenburg (0.1kW) — **1562kHz:** Kötschach, Kufstein, Obdach.

FM:	ch	MHz	kW	FM:	ch	MHz	kW
Mugel I	2	87.6	20	Hahnbaum	16	91.8	0.1
Königsberg I	2	87.6	0.03	*Kahlenberg I	16	91.9	50
Gschwandkopf I	2	87.7	0.1	Stubnerkogel I	17	92.1	0.1
Dünserberg I	2	87.6	4	Schmittenhöhe I	18	92.4	0.04
Tressenstein I	2	87.8	0.01	Patscherkofel I	18	92.5	50
Rauchkofel I	8	89.4	1	Breitenstein I	18	92.6	0.1
Luxkogel I	9	89.6	0.2	*Wachberg I	19	92.7	1
*Sonnwendstein I	11	90.4	2.5	Residenzberg I	21	93.3	0.05
*Himberg I	11	90.7	30	*Salberg I	21	93.4	0.02
*Hartberg I	13	90.8	0.01	Dobratsch I	23	93.8	0.15
Gaisberg I	13	90.8	100	Langmoosalm I	23	93.8	0.1
*Gemeindealpe I	13	90.8	0.05	*Plackles I	24	94.2	0.01
Schökl I	14	91.2	100	H. Kaibling I	24	94.3	4
Gundkopf I	15	91.4	0.1	Koralpe I	32	96.7	0.1
Reitherkogel I	15	91.5	0.01	*Jauerling I	33	97.0	100

Ampex equipment records some pretty sophisticated things.

(But not always.)

There's the big, costly, spectacular side of Ampex—world leaders in the recording of sound and vision. Like recording data flashed back from lunar probes for scientific evaluation.

There are other sides.

Like the video/audio equipment that tapes a pop-star's performance for radio or television. Like the low-cost domestic recorder that tapes baby's first cries or a South Pacific chorus—if that's your taste.

Point is, Ampex build into every product the same design flair — the same meticulous attention to detail.

Ampex put their skills to work in nearly every area of human activity, wherever there's a need for perfect reproduction of sound or vision or both.

Take Ampex videotape recording. This is simply the ability to record pictures and sound — and reproduce them almost at once—in slow motion or stop motion if need be. This technique used to be reserved for broadcast television. Ampex brought the technique—and the professional-quality equipment into wider usage. Videotape recording has a potential application in nearly everyone's job. Ampex recorders serve business, industry, commerce, education, sport, medicine, defence, engineering — and pleasure.

There could be a place in your own professional or private life. A place that might surprise you.

1. AG-20 is the portable recorder with professional playback quality. Here officers of the Royal Green-jackets record conversation in free fall—the first-ever recording under such conditions.

2. Ampex 900 Series of rotary-head recorders provided essential data for manned lunar landings—sending back sharp-definition TV pictures of the moon.

3. The Ampex Videomobile—a professional videotape recording unit built into a standard production car. TV units get new mobility.

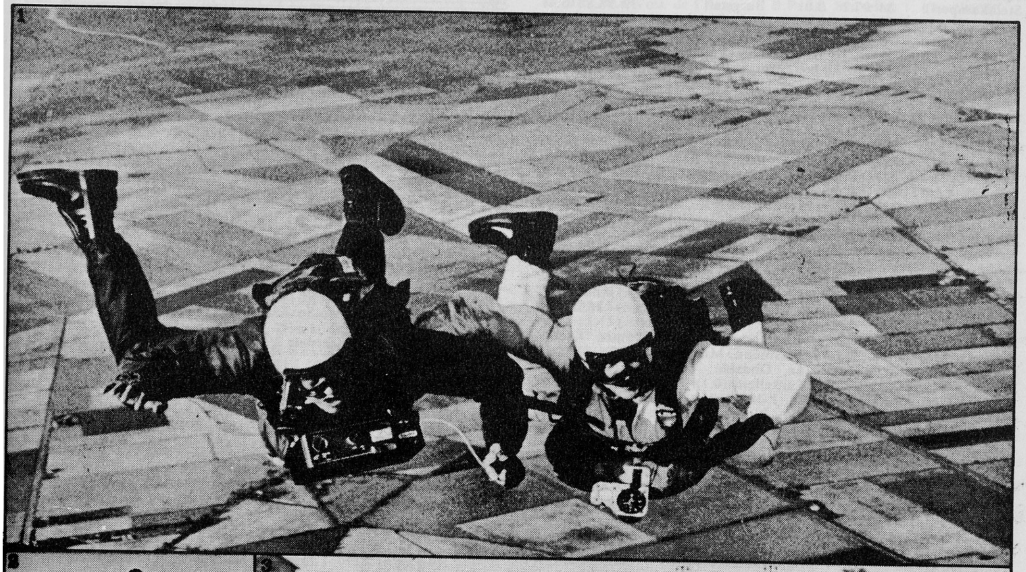
4. Here, an advertising agency executive group is taking delivery of their new VR-7003 videotape recorder. It will give them everything from low-cost previews of commercials to easy coverage of sales conferences.

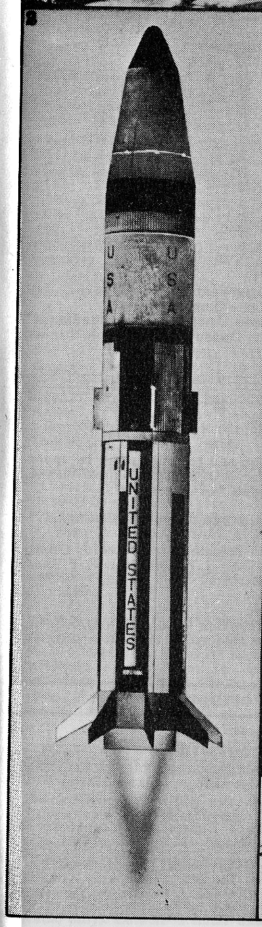
5. The light-weight VR-3000 is the smallest standard broadcast videotape recorder ever—ideal for tough, remote news-getting assignments.

AMPEX

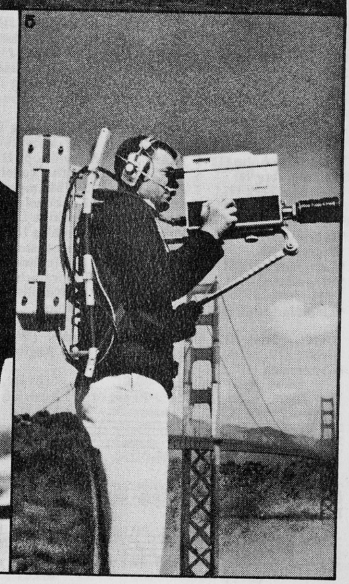
Ampex Great Britain Ltd., Acre Road, Reading, Berks. Ampex Europa G.m.b.H., Elbestrasse 1, 6 Frankfurt/Main, Germany. Ampex S.A., Via Berna 2, Lugano, Switzerland. Ampex, 14 Avenue Pierre Grenier, 92-Boulogne, France.

Video, Audio, Instrumentation and Digital Tape Recorders.
Closed Circuit TV. Computer Memory Systems. Magnetic Tape—for all recording applications.




U S A
U S A
UNITED STATES

MOBILE OUTSIDE BROADCAST UNIT



Austria—Azores

FM:	ch	MHz	kW	FM:	ch	MHz	kW
Katrin I	34	97.2	0.6	Pfänder I	37	98.2	50
Steinkamperl I	34	97.2	0.01	Burgstall I	39	98.8	0.01
Lichtenberg I	35	97.5	100	Kulmeralpe I	52	102.5	0.25

N, Wrp: 05.00, 06.00, 06.10, 07.00, 07.45 (English and French) 09.00, 11.30, 13.45, 16.00, 16.10, 18.00, 21.00, 22.00, 23.00; Sun 06.00, 07.00, 07.05, 08.00, 12.00, 12.10 (English and French), 16.00, 18.00, 21.00, 22.00, 23.00.
ÖSTERREICH II: 04.00 (Sun 05.00) — 23.05
Medium Waves:

	kHz	m	kW		kHz	m	kW
Aldrans II	629	476.9	25	Salzburg II	773	388	1
Lauterach II	629	476.9	25	Linz II	890	337.1	20
Lienz II	629	476.9	1	Graz II	1394	215.2	25
Klagenfurt II	728	412.1	25	Wien II	1475	203.4	150

Low Power Mw's (0.05kW exc. where indicated):
566kHz: Bad Ischl, Feistritz (0.1), Greifenburg, Mühlbach, Radstadt, Neukirchen — **674kHz:** Aigen, Bischofshofen, Bleiburg, Gloggnitz, Hieflau, Neumarkt, Matrei, Ried, Radenthein — **773kHz:** Bad St. Leonhard, Hermagor, Lend, Mariazell, Oberdrauburg, St. Michael/Lungau, Leoben (0.1) St. Gallenkirch, Mittersill, St. Anton, St. Lambrecht, Prutz, St. Gallen, Heiligenblut, Mallnitz — **1052kHz:** Neunkirchen.
1124kHz: Bruck/Mur (0.1), Eisernerz, Hofgastein, Imst, Krems, Kufstein, Mayrhofen, Tamsweg, Gmünd, Mürzzuschlag (0.1), Villach (0.1), Obervellach, Rottenmann, Obdach — **1313kHz:** Kindberg, Ehrwald, Friesach, Haslach, Knittelfeld (0.1), Liezen, Völkermarkt, Wolfsberg, Murau, Otz, Trieben, Kötschach (0.1), Mariapfarr, Hallstatt, Rauris — **1349kHz:** Admont, Bludenz, Zell/See (0.2), Oberwölz, Neuberg, Längenfeld, Hopfgarten, Bad Goisern, Zell am Ziller, Achenkirch, Gmünd (Nö), Nauders, Scharnitz — **1457kHz:** Amstetten, Eisenkappel, Schruns, Spittal/Drau (0.2), Judenburg (0.1), Pfunds — **1475kHz:** Saalfelden, Schwarzach, Windischgarten, Wörgl — **1484kHz:** St. Pölten (0.2) — **1493kHz:** Kitzbühel, Landeck, Reutte, Unzmarkt — **1546kHz:** Abtenau, Bad Ausse, Scheifling, Silian, Grossarl — **1594kHz:** Braunau, Feldkirchen, Zwettl.

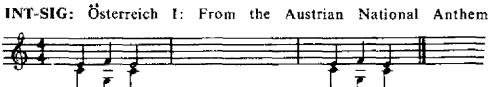
FM:	ch	MHz	kW	FM:	ch	MHz	kW
Dobratsch II	11	90.4	0.15	Dünserberg II	30	96.0	4
Salberg II	14	91.1	0.02	Wachberg II	30	96.1	1
Jauerling II	15	91.4	100	Stubnerkogel II	31	96.3	0.1
Katrin II	16	91.7	0.6	Gemeindealpe II	31	96.2	0.05
Tressenstein II	15	91.3	0.01	H. Kaibling II	31	96.3	4
Königsberg II	20	93.1	0.03	Himberg II	31	96.3	30W
Mugel II	21	93.2	20	Patscherkofel II	31	96.4	50
Gschwandkopf II	21	93.3	0.1	Breitenstein II	32	96.6	0.1
Pfänder II	21	93.3	50	Schmittenhöhe II	32	96.6	0.04
Luxkogel II	23	93.9	0.2	Residenzberg II	32	96.7	0.05
Kulmeralpe II	24	94.1	0.25	Plackles II	35	97.6	0.01
Koralpe II	25	94.5	0.1	Hartberg II	33	96.8	0.01
Gaisberg II	26	94.8	100	Burgstall II	33	96.8	0.01
Reitherkogel II	26	94.9	0.01	Hahnbaum II	34	97.2	0.1
Steinkamperl II	26	94.7	0.01	Pyramidenkogel II	36	97.8	10
Lichtenberg II	27	95.2	100	Kahlenberg II	36	97.9	50
Gundkopf II	27	95.1	0.1	Kaunertal	36	97.8	0.04
Schöckl II	28	95.4	100	Langmoosalm II	38	98.4	0.1
Sonnwendstein II	29	95.8	2.5	Rauchkofel II	41	99.3	1

N, Wrp: W 04.00, 05.30, 07.00, 09.00, 11.55, 15.00, 19.00, 21.00, 22.00, 22.10; Sun 05.30, 07.00, 11.30, 16.00, 19.00, 21.00, 22.00, 22.10.
ÖSTERREICH III: 05.00-23.05.

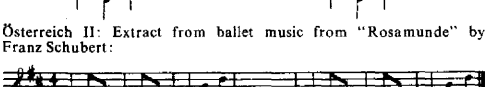
FM:	ch	MHz	kW	FM:	ch	MHz	kW
*Breitenstein III	2	87.7	0.1	Rauchkofel III	30	95.9	1
*Himberg III	3	87.9	30W	*Gschwandkopf III	37	98.0	0.1
*Kulmeralpe III	3	88.0	0.25				
*Katrin III	4	88.1	0.6	*Wachberg III	37	98.2	1
*Hahnbaum III	4	88.2	0.1	*Königsberg	38	98.5	0.03
*Sonnwendstein III	4	88.2	2.5	*Salberg	38	98.5	0.03
*Patscherkofel III	5	88.5	50	*Mugel III	39	98.7	20
*Stubnerkogel III	5	88.5	0.1	*Dünserberg III	39	98.9	4
*Hartberg III	5	88.6	0.01	*Gaisberg III	40	99.0	100
*Schmittenhöhe III	6	88.8	0.04	*Gundkopf III	40	99.0	0.1
*Lichtenberg III	6	88.8	100	*Reitherkogel III	40	99.1	0.01
*Residenzberg III	7	89.2	0.05	*Steinkamperl III	41	99.4	0.01
*Schöckl III	7	89.2	100	*Luxkogel III	42	99.7	0.2
*Burgstall III	7	89.0	0.01	*Koralpe III	42	99.5	0.1
*Jaurling III	8	89.4	100	*Plackles III	42	99.6	0.01
*Pfänder III	9	89.7	50	*Tressenstein III	42	99.6	0.01
*Langmoosalm III	9	89.8	0.1	*Kahlenberg III	43	99.9	50
*Pyramidenkogel III	19	92.8	10	*Dobratsch III	44	100.3	0.15
				*H. Kaibling III	46	100.7	4
*Gemeindealpe III	19	92.8	0.05	*Stereo.			

ANN: "Hier ist Österreich 1, Studio (Wien, Niederösterreich, Tirol .....)"; "Hier ist Österreich Regional, Studio ....."; "Österreich III".

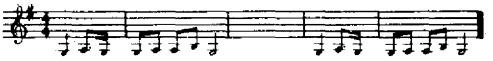
INT-SIG: Österreich I: From the Austrian National Anthem



Österreich II: Extract from ballet music from "Rosamunde" by Franz Schubert:



Österreich III: Electronic Music:



PUB: "Radio Österreich", weekly — **FI:** By licence payments and adv — **AD:** Prgr. I: 67 min's per day; Prgr. II: 49 min's per day; Prgr. III: 80 min's per day — **ALF:** Ö Sch. 240,–

SHORT WAVES:
Stations: Moosbrunn 2 × 100kW (16.28E/48.00N), Aldrans 1kW (11.27E/47.15N).

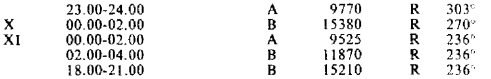
kHz	m	kHz	m	kHz	m	kHz	m
6000	50.00	9770	30.71	15325	19.58	17855	16.80
6155	48.74	11785	25.46	15380	19.50	17880	16.78
7245	41.41	11870	25.27	15410	19.47	17885	16.78
9525	31.50	11925	25.16	17715	16.93		
9610	31.22	15210	19.72	17775	16.88		

Areas: I = Europe; II = No. Europe; III = Ea. Europe; IV = So. Ea. Europe; V = So. Europe/No. Africa; VI = West-Europe; VII = Europe/No. Africa/Middle East; VIII = No. America; IX = No. America (East); X = Ce. America; XI = So. America (East); XII = So. Africa; XIII = Middle East; XIV = So. Ea. Asia; XV = Austral-Asia; XVI = Ea. Asia.

Schedule 3/11-68 — 2/3-69

Areas	Times	Dates	kHz	Antenna/Beam	
I	04.00-23.05[1]	A/B	6000	T	nd
II	18.00-20.00	A	11925	L	0°
III	10.00-12.00	B	9770	L	70°
IV	05.00-07.00	A	7245	L	130°
V	13.00-15.00	A	11785	L	200°
VI	07.00-09.00	A	7245	L	270°
VII	05.00-13.00	A	6155	V	nd
	09.00-13.00	A	7245	V	nd
	13.00-17.00	A	9770	V	nd
	15.00-17.00	A	11785	V	nd
	17.00-22.00	A	6155	V	nd
	20.00-22.00	A	7245	V	nd
VIII	00.00-04.00	A	6155	L	303°
	23.00-24.00	B	6155	L	303°
IX	00.00-04.00	B	9770	R	303°
	23.00-24.00	A	9770	R	303°
X	00.00-02.00	B	15380	R	270°
XI	00.00-02.00	A	9525	R	236°
	02.00-04.00	B	11870	R	236°
	18.00-21.00	B	15210	R	236°
	23.00-24.00	B	9525	R	236°
XII	07.00-10.00	B	17855	R	175°
	16.00-18.00	B	17880	R	175°
XIII	06.00-10.00	B	15410	R	123°
	17.00-20.00	B	9610	R	123°
XIV	04.00-07.00	B	17715	R	90°
	14.00-16.00	B	17775	R	90°
XV	10.00-12.00	B	17885	R	90°
XVI	12.00-14.00	B	15325	R	56°

[1]) 04.00 (Sun 05.00)-23.05 (Aldrans 1kW) — A) on days with even dates; B) on days with odd dates.
Antenna: L = Logarithmic period horizontal; R = Rhombic; T = Tropical broadc; V = Vertical cage; nd = Omnidirectional.
ANN: "Hier ist der Kurzwellendienst des Österreichischen Rundfunks" — **INT-SIG:** "An der schönen blauen Donau", Waltz by Joh. Strauss.



V. by QSL-card; reports of reception and recordings will be appreciated by Austrian Radio, SW-Service, P.O. Box 700, A-1040 Vienna. Report sheets available. Latest schedule free on request.

ÖSTERREICHISCHER VERSUCHS-SENDEVERBAND (Intern. Amateur Radio).
ADDR: Hugo-Wolfgasse 31, A2380 Perchtoldsdorf. Studio: Grenzgasse 14-18, A2340 Moedling. **Te:** 40393 — **L.P:** Gen. Mgr: K. F. Sanz. St. Mgr: F. Sprinzel. Dir. Tec: G. Bärnat.
STATIONS: OE3XNB, 0.5kW:
3678kHz 81.57m — 7040kHz 42.61m.
D.PRGR: Sat 13.00-13.30 on 3678kHz, Sun 10.00-10.30 on 7040kHz.
V. by QSL-card or letter. Recordings accepted — **F.PL:** Overseas Sce. in the 20m band (English) and increase of power to 1kW.

AZORES (Portuguese)

L.T: GMT — 1 h — **Pr.L:** Portuguese.

EMISSOR REGIONAL DOS ACORES (Gov.)
ADDR: Av. Gasper Fructuoso, Ponta Delgada, S. Miguel. **Te:** 22624.
STATIONS: CSA97 4865kHz 61.66m 1kW — 836kHz 358.9m 1kW.
FM: 97.9MHz 0.05kW.
HOME SCE: 10.00-17.00, 18.45-23.00 — **N:** 14.30, 22.30.
ANN: "Aqui Portugal, Ponta Delgada, Emissor Reg. dos Açores da Emissora Nacional" — **INT-SIG:** Chimes — **V.** by letter or QSL-card.

EMISSORA DO CLUBE ASAS DO ATLANTICO (Comm.)
ADDR: Aeroporto de Santa Maria. **Te:** 285. **Cable:** Asas Asmaria.
L.P: Pres: Dr. J. Salgueiro Pessoa. Dir. Tec: J. Ribeiro, A. Sarmento, C. Carvalho.

HOME SCE: CSB81 1570kHz 191m 1kW: W 12.00-16.00, 19.00-02.00; Sun 11.00-02.00. **N:** 13.00, 21.00, 22.00 — **Wrp:** 14.00, 16.00, 19.00, 02.00.
ANN: "Estacão Emissora do Clube Asas do Atlântico" — **V.** by QSL-card or letter — **INT-SIG:** Opens with music played on a Portuguese string instrument (Viola) and guitar.

R. CLUB DE ANGRA (Comm.)
ADDR: Rua Conselheiro N.A. de Bettencourt, Angra do Heroismo Terçeira. **Te:** 219. **Cable:** Radioclub.
STATION: CSB80 1394kHz 215.2m 1kW.
HOME SCE: W 07.00-10.00, 12.00-14.00, 18.00-23.00; Sat 07.00-10.00, 12.00-23.00, Sun 07.00-23.00 — **N:** 07.30, 08.45, 13.00, 18.30, 22.00.
ANN: "Aqui estação CSB80 de R. Club de Angra (A Voz da Terçeira)" — **INT-SIG:** Viola — **V.** by letter. Recordings accepted.

AFRTS: see U.S.A.

BELGIUM

L.T: GMT + 1 h — **Pr.L:** French, Dutch, German.

RADIODIFFUSION-TELEVISION BELGE (R.T.B.) — BELGISCHE RADIO EN TELEVISIE (Gov.)
ADDR: Place Eugène Flagey 18, Bruxelles 5. **Cable:** RTB or BRT. **Te:** 49.60.50 — **L.P:** Emissions françaises: Dir. Gen: R. Wangermée. Prgr. Dir. (sound): M. Hankard. Prgr. Dir. (TV): L. P. Kammans — **Nederlandse uitzendingen:** Dir. Gen: P. Vandenbussche. Prgr. Dir. (sound: C. Mertens. Prgr. Dir. (TV): B. Janssens — **Services Communs. Gemeenschappelijke diensten (common sce's):** Tec. Dir. Gen: G. de Lafonteyne. Dep. Tec. Dir: E. Dekeyser. Adm. and Finance Dir. Gen: F. Hoosemans — **International Sce's;** Exec. Dir: F. Zoete. **German Prgr:** Head: Mars. I. Janetsky — **Cultural Services** (including Foreign Relations): Dir: L. Wallenborn.

HOME SERVICE

FRENCH NETWORK

Bruxelles I (Nat.)	620kHz	483.9m	150kW	(Wavre)
Bruxelles IV (Reg.)	1124kHz	266.9m	10kW	(Aye, Houdeng)*
	1484kHz	202.2m	5kW	(Liège)*

	MHz	kW		MHz	kW
Anlier (Nat.)	87.6	10	Bruxelles (3. prgr.)	96.1	2
Houdeng* (Reg.)	92.3	50	Houdeng (3. prgr.)	96.6	50
Ougrée* (Reg.)	90.5	50	Liège (3. prgr.)	99.5	10
Anlier* (Reg.)	91.5	10	Anlier (3. prgr.)	94.1	10

*Prgr's from studios in Mons, Namur, Liège.
FM: Ougrée: 88.5MHz 10kW German Prgrs.
620kHz (rel. on FM 87.6MHz): W 05.30-22.47 (Sat 23.00). Sun 05.30-23.00.
N. Wrp: 05.30, 06.00, 06.30, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 21.00, 22.00, 22.45, 23.00 (Sat/Sun).
1124kHz (rel. on FM 92.3/90.5/91.5MHz): 05.30-22.00 (Sat 23.00).

DUTCH NETWORK

Brussels II (Nat.)	926kHz	324.0m	150kW (Wavre)
Brussels III (Reg.)	1484kHz	202.2m	0.5kW (Kortrijk)
	1511kHz	198.5m	20kW (Veltem)
Bredene	1594kHz	188.2m	5kW

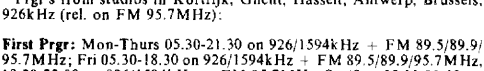
FM		MHz	kW			MHz	kW
Aalter	(Nat.)	95.7	10	Veltem	(3.prgr.)	89.5	50
Veltem*	(Reg.)	93.7	50	Aalter	(3.prgr.)	90.4	10
Genk*	(Reg.)	97.9	10	Genk	(3.prgr.)	89.9	10
Aalter*	(Reg.)	98.6	50				

* Prgr's from studios in Kortrijk, Ghent, Hasselt, Antwerp, Brussels, 926kHz (rel. on FM 95.7MHz):

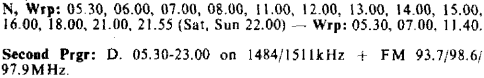
First Prgr: Mon-Thurs 05.30-21.30 on 926/1594kHz + FM 89.5/89.9/95.7MHz; Fri 05.30-18.30 on 926/1594kHz + FM 89.5/89.9/95.7MHz, 18.30-23.00 on 926/1594kHz + FM 95.7MHz, Sat/Sun 05.30-23.00 on 926/1594kHz + FM 95.7MHz.
N, Wrp: 05.30, 06.00, 07.00, 08.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 18.00, 21.00, 21.55 (Sat, Sun 22.00) — **Wrp:** 05.30, 07.00, 11.40.

Second Prgr: D. 05.30-23.00 on 1484/1511kHz + FM 93.7/98.6/97.9MHz.

Third Prgr: Mon-Thurs 21.30-23.00 on 926/1594kHz + FM 89.5/89.9/90.4/95.7MHz; Fri 18.30-23.00 on FM 89.5/89.9/90.4MHz; Sat/Sun 08.30-23.00 on FM 89.5/89.9/90.4MHz.
ANN: F: "Radiodiffusion-Télévision Belge" **Dutch:** "Belgische Radio en Televisie". **G:** "Belgischer Fernseh-Rundfunk" — **INT-SIG:** Xylophone. F. Network: Extract from Grétry's famous melody "Où peut-on être mieux"?



Dutch Network: The first movement of "Beiaardlied". (Extract from Ruben's cantata by Peter Benoit).



V. by QSL-card or letter. Recordings accepted. **ALF:** B. frcs. 204,- (radio only). Combined Radio and TV: B. frcs. 960,-.

INTERNATIONAL SERVICE
ADDR: "La Voix de l'Amitie", B.P. 26, Bruxelles 1. **Te:** 496050
L.P: Exec. Dir: F. Zoete. Dep. Dir: M. Swaenepoel. Heads, Shortwave Dept: J. Vandenbranden, M. Depré, J. Mertens. Transcription: W. Sanders.
STATIONS: ORU3/ORU4 100kW, ORU5 20kW
G.C: 04.34E/50.44N.

kHz	m	kHz	m	kW	m	kHz	m
6010	49.92	9740	30.80	11935	25.14	17860	16.79
6125	48.98	11715	25.61	15335	19.56	21475	13.97
6160	48.70	11875	25.26	17720	16.93	21510	13.94
9615	31.20	11895	25.22	17750	16.90	21690	13.83

Abbreviations: A = French/Dutch; B = French/Dutch/Congolese; C = Congolese; I = Africa; II = No. America; III = So. America; IV = So. Europe; V = Far East — Freq's in fat types 100kW, others 20kW.

Times	L	Area	kHz
10.00-12.00	B	I	21475/**17860/21510**
12.15-13.00a	A	IV/V/I	11875/**21510/17860**
13.30-14.30 (Sat) b	C	I	15335/**17860/21475**
13.30-16.30 (Sun)b	A	I	17750/**17860/21475**
16.45-17.15 (Sun)b	A	I	9740/**11715/17860**
14.45-15.45 (W)e			**6010/11935**/17860
16.00-17.15 (W)	C	I	9740/**11715/17860**
17.15-18.30	C	I	**11715**
17.15-18.30	A	I	9740/**17860**
18.30-21.00c	A	I	6010/**11715/17860**
21.15-23.00d	A	III	**6125/9615**/6010
23.15-01.00d	A	II	**6125/9615**/6010

a) for missionaries and seamen (alternately in French and Dutch); b) Sat (Congolese), Sun (Sport, French/Dutch); c) for Belgians and Africans; d) for Belgian seamen and Belgians in the world, alternately in French and Dutch; e) for Belgians in Europe.
N: French: 10.30, 11.30, 15.00, 17.15, 18.22, 19.30, 21.40, 00.25. **Dutch:** 10.15, 11.40, 15.20, 17.22, 18.15, 19.00, 21.15, 24.00. **Prgr. in English:** 22.05, 00.50.
ANN: F: "Ici Bruxelles, Radiodiff-Television Belge, Emission Mondiales". Dutch: "Hier is Brussel, de Belgische Radio en Televisie Wereldomroep" — **SIGNALS:** Starting: Xylophone — **INT-SIG:** Gevaerts "Vers l'avenir". The signal at the start of each broadcast: "Où peut-on être mieux" — Closing: Belgian National Anthem — **V.** by QSL-card. Recordings accepted.

BULGARIA (People's Rep. of)

L.T: GMT + 2 h — **Pr.L:** Bulgarian.

BULGARIAN RADIO AND TELEVISION (Gov.)
ADDR: Bulgarian Broadcasting at the Committee of Culture and Art, 4 Bd. Dragan Tsankov, Sofia. **Te:** 87-21-01. **Cable:** Bulgarradio. **Telex:** 541.
L.P: General Direction: Dir. Gen: B. Nonev. Dir. Tec: Z. Zherkov. Head Foreign Rel: I. Milkov. Bulgarian Radio: Dir. T. Stoianov. Chief, Foreign Rel: V. Kraichev.

HOME SCE:	kHz	m	kW		kHz	m	kW
Sofia I	593	506	200	Varna	1124	267	10
Plovdiv	746	402	30	Kardjali	1160	259	30
Stolnik	773	388	30	Shumen	1160	259	30
Sofia II	827	362.7	100	Stara Zagora	1223	245	30
Blagoevgrad	863	348	30	Sofia III	7670	39.11	15

1st Prgr: 03.25-07.00 on 593/746/773/863/1124/1223kHz; 07.00-20.30 on 593/746/773/863kHz; 20.30-00.10 on 593/746/773/863/1124/1160/1223kHz.
N: 03.30, 04.30, 06.00, 07.00, 08.00, 09.00, 10.30, 12.00, 13.00, 15.00, 16.00, 17.00, 18.30, 20.30, 22.00.
1st Prgr: is aired over 4 FM st's (Sofia I, Mt. Botev I, Plovdiv, Sl. Brjag)
2nd Prgr: is aired over 4 FM st's (Sofia II, Mt. Botev II, Varna, Sl. Brjag).

FOREIGN SERVICE
STATIONS: G.C: 23.20E/42.40N.

kHz	m	kW	kHz	m	kW	kHz	m	kW
827	362.7	100	7255	41.35	50	11765	25.50	50
1160	259.3	30	7670	39.11	15	11970	25.06	50
5920	50.68	50	9560	31.38	50	15310	19.60	100
6070	49.42	100	9660	31.06	50	17800	16.85	50
6245	48.04	120	9700	30.93	120			

TO EUROPE/NEAR EAST

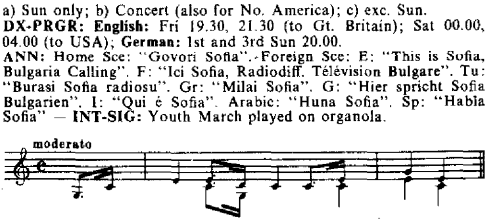
Arabic	kHz	English	kHz
04.00-04.30	827, 6070, 7670, 9560	19.30-20.00	6070, 9660
		21.30-22.00	6070, 9660
		00.00-01.00b	9700
04.30-05.30a	827, 6070, 7670, 9560	**Esperanto**	
		20.05-20.30a	5920
11.30-11.55	9700, 11765, 15310	23.30-23.55a	6070, 9560
		French	
17.00-17.55	9700, 11765, 15310	19.00-19.30	6070, 9660
		21.00-21.30	6070, 9660
20.00-20.30	1160, 6245, 7670, 9700	**German**	
		20.00-21.00	6070, 9660
Bulgarian		**Greek**	
05.00-05.30c	827, 6070, 7670, 9560	04.30-05.00c	827, 6070, 7670, 9560
06.30-07.30	827, 6070, 7670, 9560	05.30-06.30a	827, 6245, 9560
		06.00-06.30c	827, 1160, 6070, 7670, 9560
11.00-11.10	9700, 11765, 11970	09.00-10.00a	9700, 11765, 11970
21.00-21.30	827, 7670		
22.00-22.10	7670, 9700, 11765, 15310	12.00-12.30c	1160, 6070, 9700, 11765

Greek	kHz	French	kHz
16.30-16.55	6070, 7255, 9700	19.30-20.00*	15310, 17800
19.00-19.30	6245, 7670	21.30-22.00*	9700, 11765, 15310
20.30-21.00	827, 6245, 7670		
Italian			
18.00-18.30	6070, 7255, 9700		
20.30-21.00	5920, 9700		
22.00-22.30	827, 6070, 9660		
Serbo-Croat			
06.30-07.00c	827, 6070, 7670		
07.30-08.30a	827, 6070, 7670		
12.30-12.55	9700, 11765		
21.30-22.00	827, 7670		
Spanish			
22.30-23.00	9700		
Turkish			
05.30-06.30a	962, 1160, 6070, 7670		
10.00-11.00	1160, 9700, 11765, 11970		
16.00-16.30	1160, 6070, 9700		
18.30-19.00	6245, 7670, 9700		
19.30-20.00	1160, 6245, 7670		
TO AFRICA			
English			
19.05-19.30*	15310, 17800		
21.05-21.30**	9700, 11765, 15310		

*) = to East Africa
**) = to West Africa

TO NORTH AMERICA			
Bulgarian	kHz		
23.30-24.00	9700		
01.00-01.30	9700		
English			
00.00-01.00	9700		
04.00-04.30	9700		
Spanish			
04.30-05.00	9700		
TO SOUTH AMERICA			
Bulgarian			
23.00-23.25	9560, 9700, 11765		
00.30-01.30	9560, 11765		
Spanish			
22.30-23.00	9560, 9700, 11765		
00.00-00.30	9560, 11765		
02.00-02.30	9560, 11765		

a) Sun only; b) Concert (also for No. America); c) exc. Sun.
DX-PRGR: English: Fri 19.30, 21.30 (to Gt. Britain); Sat 00.00, 04.00 (to USA); **German:** 1st and 3rd Sun 20.00.
ANN: Home Sce: "Govori Sofia". Foreign Sce: E: "This is Sofia, Bulgaria Calling". F: "Ici Sofia, Radiodiff. Télévision Bulgare". Tu: "Burasi Sofia radiosu". Gr: "Milai Sofia". G: "Hier spricht Sofia Bulgarien". I: "Qui è Sofia". Arabic: "Huna Sofia". Sp: "Habla Sofia" — **INT-SIG:** Youth March played on organola.



V. by QSL-card or letter. Recordings accepted — **PUB:** Prgr. schedule. **FI:** By state — **AD:** D 13.30-14.00 — **ALF:** Levas 5,–.

CYPRUS

L.T: GMT + 2 h — **Pr.L:** Greek, English, Turkish, Armenian.

CYPRUS BROADCASTING CORPORATION (Gov. Comm.)

ADDR: P.O. Box 1824, Nicosia. **Te:** 22231. **Cable:** Broadcasts. **Telex:** 2333 — **L.P:** Dir. Gen: A. Christofides. Dep. Dir. Gen: I. Hadjiossif. Chief Eng: P. T. Astreos. Head of Radio Prgr: Ch. Papadopoulos. Head Comm. Div: D. Kyprianou.

STATIONS	kHz	m	kW		kHz	m	kW
Nicosia	602	498	20	*Paphos*	917	327	2
Nicosia	692	434	20	Limassol	1484	202	0.5

HOME SCE: Greek on 692/917/1484kHz: W 04.00-21.05, Sat 04.00-22.05. **N:** 04.30, 05.30, 08.00, 11.30, 15.00, 17.30, 20.00, 21.00 (Sat), 22.00 — **Turkish on 602kHz:** 04.30-06.00, 10.00-11.30, 14.00-17.00. **N:** 05.00, 11.15, 16.45 — **English on 602kHz:** 11.30-12.30 (Sun 13.00), 17.00-19.30. **N:** 12.00, 17.15 — **Armenia:** Sun 13.00-14.00. **N:** 13.15.
ANN: Greek: "Radiofonikon Idryma Kyprou". Turkish: "Burasi Kibris Radio Yayin Korporasyonu" — **INT-SIG:** Avkoritissa played on Guitar:

V. by letter. Recordings accepted — **ALF:** £ 1/5/0 — **FI:** Go. subsidized, Comm. adv. income — **AD:** 30 min d.

BRITISH FORCES BROADC. SCE. CYPRUS

is operated by the Ministry of Defence to provide a sce. of information, entertainment as well as a link with home for H.M. Forces in Cyprus. It is non-comm. does not accept adv.
ADDR: B.F.P.O. 53, Cyprus — **L.P:** St. Contr: R. W. Morgan. Eng-in-Charge: M. E. Townley.
STATIONS: Nicosia 1502kHz 199.7m 1kW — Limassol 890kHz 7.5kW — Akrotirei 92.1kHz 20kW — Dhekelia 99.6kHz 20kW — Nicosia 89.9kHz 0.05kW — Famagusta 96.4kHz 0.05kW.
D.PRGR: W 03.45-08.30, 10.30-21.09 (Sat 01.00); Sun 05.30-21.00. **N:** 04.00 (W), 05.00 (W), 07.00, 11.00 (Sun), 13.00, 16.00, 17.00 (Sat), 18.00, 21.00 (Sat) — **Wrp:** 03.58 (W), 04.58 (W), 07.10 (Sun), 16.10 — **Rlg:** 04.10 (W), 07.10 (W), 06.30 (Sun), 17.15 (Sun) — **ANN:** "This is the British Forces Broadc. Sce. Cyprus" — **V.** by QSL-card — **PUB:** Prgr. schedule free. **Rp.**

BBC EAST MEDITARRANEAN RELAY

kHz	m	kHz	m	kHz	m	kHz	m
638	470.5	7140	42.02	11720	25.60	15435	19.44
719	417.2	7210	41.61	11865	25.28	17885	16.78
1421	212.4	7230	41.49	11905	25.20	21610	13.88
6050	49.59	9600	31.25	11910	25.19	21660	13.85
6065	49.46	9625	31.17	11955	25.09		
6120	49.02	9650	31.09	15260	19.66		
7120	42.13	9690	30.96	15420	19.46		

Relays of BBC Arabic & Persian Services and World Service on medium wave 638, 719 and 1421kHz.
Full details of tr's on mw and sw are included in the BBC schedule under Great Britain.

CZECHOSLOVAKIA

L.T: GMT + 1 h — **Pr.L:** Czech, Slovak.

CESKOSLOVENSKY ROZHLAS (Gov.)

ADDR: Czechoslovak Radio, Praha 2, Vinohradska 12. **Cable:** Radiopraha. **Te:** 2115 — **L.P:** Dir. Gen: Dr. M. Marko. Dep. Dir. Gen: A. Sarvas. Dept. Dir. Gen: Dr. R. Behal (Prgr), Dep. Dir. Gen: Dr. K. Hrabal (Foreign Sce), Dep. Dir. Gen: M. Junek (Engineering). Dir. of Adm: Ing. J. Simmr. Head Foreign Rel: Dr. K. Reif.

HOME SERVICE: MEDIUM WAVES

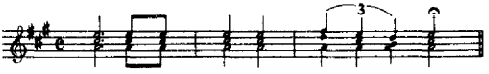
Location	kHz	m	kW	Prgr
Uher Hrasdiste	272	1102.9	200	CSI
Praha	638	470.2	150	Praha
Banska Bystrica	701	428.0	100	Bratislava
Usti nad Labem	701	428.0	2	Regional
Praha	701	428.0	30	CSI*
Praha kraj	701	428.0	2	Regional
Kosice	701	428.0	5	Regional
Brno	953	314.7	100	Praha
Plzen	953	314.7	15	Praha
Bratislava	1097	273.5	150	Bratislava**
Kosice	1232	243.5	100	Bratislava
Orava	1232	243.5	2/5	Regional
Hradec Kral	1232	243.5	5	Praha + Regional
Praha Melnik	1286	233.3	100	CSI***
Rim. Sobota	1286	233.3	2/4	Regional
Jihlava	1484	202.2	2	Praha
Usti nad Labem	1484	202.2	2	CSI + Regional
Rim. Sobota	1484	202.2	3.5	Regional
Praha	1520	197.3	30	CSI (from 17.55)
C. Budejovice	1520	197.3	5	CSI
Karlovy Vary	1520	197.3	15	CSI
Liberec	1520	197.3	2	CSI
Ostrava	1520	197.3	30	CSI
Tatry	1594	188.2	2	Bratislava + Reg.
Zilina	1594	188.2	2	Bratislava

* = Evening only; ** = Foreign Sce (night only); *** = Foreign Sce (Evening).

FM:

Location	MHz	kW	Location	MHz	kW
Ostrava	66.32	4	Kral. Hola	69.20	10
Kosice	66.38	4	Hradec Kral	69.35	4
Praha	66.83	2	Tatry	69.40	4
Bratislava	66.98	2	*Zilinia*	69.50	1
Hradec Kral	67.22	2	Plzen	69.56	8
Poprad	67.28	1	B. Bystrica	69.69	8
Plzen	67.34	8	Brno	69.86	8
Bratislava	67.76	3	C. Budejovice	70.07	8
Kral. Hola	68.06	10	Usti nad Labem	70.50	4
Bratislava	68.84	8	Zilina	71.60	1
Kosice	68.87	8	C. Budejovice	71.63	8
Praha	68.96	4	Brno	71.87	8
Ostrava	69.07	4	Usti nad Labem	72.20	4
Ostrava	69.08	4	B. Bystrica	72.50	8

* = up to 15.00; ** = from 15.00.
CS I: Czech, Slovak: 03.30-23.00 — **N. Wrp:** W 03.30, 04.30, 05.30, 06.30, 09.00, 11.00, 13.00, 15.00, 17.00, 20.00, 22.00; Sun 05.00, 06.30, 09.00, 12.00, 17.00, 20.00, 22.00 — Night concerts (with **multilingual ann**), Mon, Tues, Wed 21.50-23.00.
CS II: Czech: 07.55-23.05 — **N. Wrp:** W 08.00, 10.00, 12.00, 14.00, 16.00, 21.30, 23.00; Sun 11.05, 21.40, 23.00.
PRAHA: Czech: 03.30 (Sun 05.00)-01.00 — **N, Wrp:** 03.30, 04.00, 04.30 05.00, 05.30, 06.00, 06.30, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 21.00, 22.50, 00.55, Sun 05.00, 06.00, 08.00, 11.05, 18.00, 21.00, 22.50, 00.55 — **L.L: Russian:** Tues 15.45-16.00, **German:** Thurs 15.40-16.00 — **Polish:** On 1520kHz: D 14.50-15.00, Sat 09.16-09.45. **German:** On 701/1520kHz: W 16.00-16.15, Sun 08.00-09.00.
BRATISLAVA: N, Wrp: W 03.30, 04.00, 05.00, 06.50, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 21.00, 22.55; Sun 05.00, 06.00, 11.30, 18.00, 21.00, 22.55 — **L.L: Russian:** Wed 21.15-21.35, Fri 14.30-14.50 — **Hungarian:** 06.00-07.00 (W), 08.45-09.30 (Thurs), 11.00-11.40, 14.00-15.00 (Mon-Fri), 11.00-15.00 (Sat), 06.00-14.00 (Sun) — **Ukrainian:** 11.00-11.10 (W), 08.45-09.30 (Thurs), 14.30-15.00 (Mon-Fri), 15.00-15.30 (Tues), 15.30-16.00 (Sat), 06.00-06.50 (Sun).
Phonotests for Radioamateurs: Wed, Sat 07.55 on all freq's of CSII & Praha — **See last min. information.**
INT-SIG: Praha: "The two opening bars of Smetana's symphonic Poem 'Vysehrad'."



CS: Fanfares from a March by V. Dobliás.

Advertisement

telecommunication journal

In the increasingly international age in which we live, it is more important than ever that everyone connected with radio should be in touch with authoritative world opinon on radio matters.
The Telecommunication Journal, the official organ of the International Telecommunication Union (ITU), serves just this purpose. Since 1869 (when it first appeared as the "Journal Télégraphique") it has faithfully covered all aspects of telecommunications which come within the purview of the world organization (now a UN specialized agency) set up in 1865 to regulate them.

The journal contains

- a news section covering the activities of the ITU, of its Member Administrations and of private operating companies and highlighting technical advances in radio throughout the world –
- a list of satellite launchings notified during the previous month –
- a section entitled "Ideas and Achievements" which covers the major developments of telecommunications in the various Member Administrations –
- articles by world experts, with a heavy emphasis recently on the latest developments in space communications –
- a comprehensive list of articles of telecommunication interest appearing in the scientific press throughout the world –
- official ITU information, including lists of forthcoming ITU Conferences and other international telecommunication meetings –
- monthly sunspot predictions –
- "Telephilately" a section devoted to stamps with telecommunications as their subject –
- section giving details of invitations to tender released by the various Member Administrations concerning telecommunication installations.

It is published monthly by the ITU in separate English, French and Spanish editions.

It costs 2.5 Swiss francs a copy. The annual subscription is 25 francs for one language edition, 50 francs for two and 75 francs for three.

For further information, write to: Telecommunication Journal, ITU, Place des Nations, 1211 Geneva, Switzerland.

AUTHORITATIVE **READABLE** **COMPREHENSIVE**

Bratislava: Fanfares from a March by B. Urbanec:

FOREIGN SERVICE

Stations: All tr's 100kW exc. 1097kHz = 150kW (G.C. 15.09E/50.09N).

kHz	m	kHz	m	kHz	m	kHz	m
1097	273.5	9505	31.56	11800	25.42	15448	19.42
1286	233.3	9540	31.45	11960	25.08	17840	16.82
5930	50.59	9560	31.38	11990	25.02	21450	13.99
6055	49.55	9575	31.33	15285	19.63	21700	13.83
6105	49.14	9600	31.25	15310	19.60	21735	13.81
7345	40.85	9630	31.15	15365	19.52		

Winter shortwave schedule not to hand at time of printing.

TO EUROPE
English
07.00–08.00
12.00–12.30
15.30–16.30
16.30–17.00
19.00–19.30
French
11.00–12.00
German
08.00–09.30
09.30–11.00*
Italian
12.00–13.00
13.00–14.30†
17.00–17.30

Spanish
12.30–13.00†
18.30–19.00

TO AFRICA
Arabic
16.30–17.30
19.30–20.30
English
15.30–16.30
17.30–18.30
French
18.30–19.30
20.30–21.30
Swahili
15.00–15.30

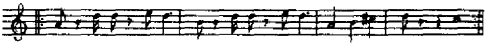
TO FAR EAST/ AUSTRALIA
English
07.00–08.00

TO SO. & CE. AMERICA
Czech/Slovak
22.30–23.00
Portuguese
21.30–22.30
00.00–01.00
Spanish
23.00–24.00
02.00–03.00

TO NORTH AMERICA
Czech/Slovak
13.30–14.00
03.00–03.30
English
14.00–15.00
01.00–02.00
03.30–04.30

* = to Austria; †Sat/Sun only.

NB: see last min. information.
MW SCE. for Europe: On 1286kHz: English: 22.00–22.30; **French:** 20.30–21.00, 21.30–22.00; **German:** 18.00–18.30; 19.00–19.30, 20.00–20.30, 22.30–23.00; **Italian:** 18.30–19.00, 19.30–20.00, 21.00–21.30; **Spanish:** 23.00–23.30.
Prgr's for radioamateurs and SWL's:
To Europe: Every Wed at 12.00, 16.30, 19.00, 22.00. **To No. America:** 2nd Fri at 01.00, 03.30; 07.00 (repeat for Far East and Australia). **Monitor Club:** 4th Fri at 01.00, 03.30 (07.00 repeat for Far East and Australia). **In German:** 1st Thurs 19.00, repeated following Thurs 08.00. For Austria: 3rd Sun 09.30, repeated following Tues 17.05.
ANN: E: "This is Prague". **Arabic:** "Huna Pragh". **F:** "Ici Prague, Tchécoslovaquie". **I:** "Qui Praga Cecoslovacchia". **G:** Hier spricht Prag". **Sp:** "Aqui R. Praga, Checoslovaquia". **P:** "Aqui fala a R. Praga". **Czech/Slovak:** "Posloucháte Prahu, vysilani Cs. rozhlasu pro krajany"—**INT-SIG:** The opening bars of the song "Forward Left" by J. Seidl, played on trumpets.



V. by QSL-card and letter. Recordings accepted—**PUB:** Foreign Sce. sched. free on request—**FI:** by license payments and adv.—**AD:** Mon, Wed, Thurs, Fri 07.55; Mon–Fri 14.55; Wed, Thurs 16.50; Sat 16.35 —**ALF:** 60,– Czech Crowns.

DENMARK

L.T: GMT + 1 h — **Pr.L:** Danish.

RADIO DENMARK (Gov.)
ADDR: Radiohouse, Rosenørnsallé 22, Copenhagen, 1970 V. **Te:** 350647. **Cable:** Danradio — **L.P:** Dir. Gen: Hans Sølvhøj. Dir. Prgr. (radio): J. F. Lawaetz. Dir. Adm: Ejnar Jensen. Head of Secretariate: Erik Carlsen. Head of Music: M. Andersen. Head of Drama (radio): J. Claudi. Head of Entertainment (radio): Kaj Bruun. Head of Press and Foreign Relations Dept: E. Trautmann. Dir. Tec. (radio + TV): J. Fr. Hecgaard. Head of Tec. Dept. (radio): H. C. Jørgensen. Head of News: N. Grunnet. Head, Actualities and Cultural Dept. (radio): J. Vedel-Petersen. Head, Children & Youth Prgrs: Mogens Vemmer. Head, School Broadcasts (radio + TV): V. Christensen.
STATIONS: Long and Medium Waves:

	kHz	m	kW			kHz	m	kW	
Kalundborg	254	1224	150	I	København	1484	202	2	I
Kalundborg	1061	283	60	II	Ålborg	1484	202	0.25	I
København	1430	210	10	II	Tønder	1484	202	0.25	I
Skive	1430	210	70	II	Esbjerg	1594	188	2	I

FM:	MHz	kW	Prgr		MHz	kW	Prgr
Århus	88.1	30	I	Sydsjælland	94.8	60	I
Fyn	89.0	60	I	Sønderjylland	95.1	50	I
Ålborg	89.7	30	III	Århus	95.9	30	II
Bornholm	90.0	30	III	København	96.5	60	II
Vestjylland	90.2	60	I	Fyn	96.8	60	II
København	96.5	60	II	Sønderjylland	97.2	50	III
Århus	91.7	30	III	Sydsjælland	97.5	60	II
Fyn	92.6	60	III	Ålborg	98.1	30	II
Vestjylland	92.9	60	III	Vestjylland	98.5	60	II
Ålborg	93.3	30	I	Bornholm	99.3	30	II
København	93.85	60	III	Sydsjælland	99.6	60	III
Bornholm	94.5	30	I	Sønderjylland	99.9	50	II

+ 6 low power freq. changers in Hobro (3) and Vejle (3).

LISTEN TO

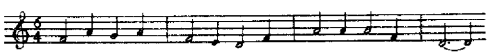
THE VOICE OF DENMARK

Tid GMT Time GMT Hora GMT	Område Area Area	Sprog Language idioma	Bølgelængde Wavelength Onda	Frekvens Frequency Frecuencia	Bemærkninger Remarks Observaciones
01.00—01.45 01.45—02.15	Nordamerika North America	Dansk English	31.51 m.	9.520 kc	Om søndagen er alle programmer på dansk.
07.00—07.45 07.45—08.15	Fjernøsten Far East	Dansk English	19.78 m.	15.165 kc	
11.30—11.55	Grønland	Dansk	19.78 m.	15.165 kc	
12.00—12.45 12.45—13.15	Nordamerika North America	Dansk English	19.78 m.	15.165 kc	On Sundays programmes in Danish
13.30—13.45	Grønland	Dansk	19.78 m.	15.165 kc	
14.00—14.45 14.45—15.15	Sydasien South Asia	Dansk English	19.78 m.	15.165 kc	Los Domingos todos los programas en danés.
17.30—18.15	Grønland	Dansk	19.78 m.	15.165 kc	
18.30—19.15 19.15—19.45	Afrika Africa	Dansk English	19.78 m.	15.165 kc	
21.00—21.45 21.45—22.15	Sydamerika América del Sur	Dansk Español	19.78 m.	15.165 kc	
10.15—11.00	Test Europe	English	31.51 m.	9.520 kc	Sat. and Sun. only

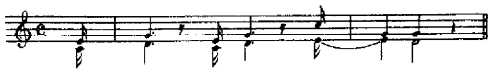
SHORTWAVE DEPARTMENT, RADIO HOUSE, COPENHAGEN V., DENMARK

Answer by letter or QSL-card

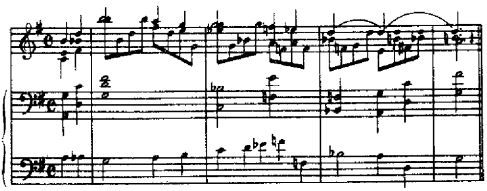
HOME SCE:
1st Prgr: W 05.00-23.05, Sun 07.00-23.05.
N: 05.00(W), 06.00(W), 07.00, 08.00, 11.30, 14.30(W), 17.30, 21.00, 22.00, 23.00 — **Wrp:** 07.45, 10.50, 17.05 — **L.L: English:** Tues, Fri 09.40-10.00 — **Rlg:** Sun 09.00, W 07.30.
2nd Prgr: W 16.15-Abt. 22.00(Sat 23.05); Sun 08.00-22.10(Mon 18.00-18.45 not on 1061 kHz (Kalundborg) and 1430 kHz (Copenhagen). N: 17.30 & between 21.00 and 22.30 — **Rlg:** Sun 13.00 — **L.L: English:** Mon, Thurs 17.05-17.25. **French:** Mon, Thurs 16.25-16.45. **Spanish:** Mon, Thurs 16.45-17.05. **Russian:** Tues, Fri 16.25-16.40.
3rd Prgr (Musical Prgr): W 11.00-19.00; Sun 08.00-23.05. Also 21.00-23.00 on Prgr. I (this prgr. is also relayed by the tr's of the 2nd prgr: 11.00-16.00). **N:** hourly.
Reg. Prgr's: Mon 18.00-18.45 on 93.3 MHz/1484 kHz (Ålborg), 88.1 MHz (Århus), 90.2 MHz (Vestjylland), 95.1 MHz (Sønderjylland), 1484 kHz (Tønder), 1594 kHz (Esbjerg), 89.0 MHz (Fyn), 94.8 MHz (Sydsjælland, 90.8 MHz/1484 kHz (København), 94.5 MHz (Bornholm). During the times for Regional Prgr's Kalundborg I 245 kHz is used for special prgr. prepared by the Shortwave Department.
ANN: "Danmarks Radio, Program I" (Program II) — **INT-SIG:** Prgr. I: From an old Danish folksong: D at 11.00 and 19.00: The chimes of the Town Hall in Copenhagen.



Prgr. II:



INT-SIG: 3rd Prgr:



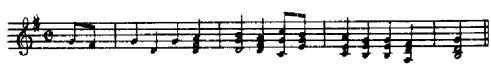
FOREIGN SCE:
STATIONS (G.C: 12.21E/55.41N): 1 × 50kW tr.
OZF5 9520kHz 31.51m — OZF7 15165kHz 19.78m

Times	Language	kHz	Area	News
01.00-01.45	Danish	9520	No. Am.	01.00(D)
01.45-02.15	**English**	9520	No. Am.	
07.30-08.15	Danish	15165	F. East	07.30(D)
08.15-08.45	**English**	15165	F. East	
10.15-11.00*	**English**	9520	Beam: 236°	
11.30-11.55	Danish	15165	Greenland	
12.00-12.45	Danish	15165	No. Am.	12.00(D)
12.45-13.15	**English**	15165	No. Am.	°
13.30-13.45	Danish	15165	Greenland	13.30(D)
14.00-14.45	Danish	15165	So. Asia	14.00(D)
14.45-15.15	**English**	15165	So. Asia	
17.30-18.15	Danish	15165	Greenland	17.30(D)
18.30-19.15	Danish	15165	Africa	18.30(D)
19.15-19.45	**English**	15165	Africa	
21.00-21.45	Danish	15165	So. Am.	21.00(D)
21.45-22.15	Spanish	15165	So. Am.	21.45(Sp)

*Sat and Sun only (test).
Emphasis is laid on cultural and social material, on aspects of the many facets of life in Denmark, Danish relations with the rest of the world, and also included in the prgr's are classical and light music, a DX prgr. "DX" Window", topical events and mailbag get-togethers.

DX-Window: Sun 10.30-10.50; Mon 08.15-08.35, 12.45-13.05, 14.45-15.05, 19.15-19.35; Tues 01.45-02.05.

INT-SIG & ANN: Danish tr's preceded by repetition of first bars of Danish National song by Carl Nielsen:



followed by the words: "Danmarks Radio". The English tr's begin with: "This is Denmark".

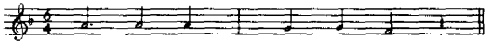
Message to Listeners: Radio Denmark is anxious to receive reports on prgr. and on reception conditions from all parts of the world. It makes every endeavour to get into touch with countrymen and listeners in countries abroad with a view to provide the best possible sw-sce — V. by letter or QSL-card. Recordings accepted — **PUB:** "Voice of Denmark" (quarterly) mailed upon request — **ALF:** Kr. 55.-(radio).

FAROE ISLANDS (Danish Territory)

L.T: GMT — **Pr.L:** Faroese.

UTVARP FØROYA

ADDR: P.O. Box 128, Tórshavn. **Te:** 1380. **Telex:** 26 — **L.P:** Mgr: N. J. Arge.
STATION: 548kHz 513m 5kW.
HOME SCE: Mon-Fri 07.15-08.00, 12.00-13.00(Wed 14.00), 18.30-20.00; Sat 07.15-08.00, 12.00-16.00, 18.30-21.00; Sun 14.00-18.00 — Prgr's consist of Wrp, N from the Faroes, foreign N, lectures, music, features, radioplays, interviews, morning prayer — **ANN:** "Utvarp Föroya" — **INT-SIG:** Xylofon — **V.** by letter. Recordings accepted — **ALF:** Kr. 50.00.



FINLAND

L.T: GMT +2 h — **Pr.L:** Finnish, Swedish.

OY YLEISRADIO AB (Gov.)

ADDR: Kesäkatu 2, Helsinki 26. **Te:** 441141. **Cable:** Yleisradio. **Telex:** 12.735.
L.P: Dir. Gen: E. S. Repo. Dep. Dir. Gen, Dir. Staff Adm: L. H. Vennola. Asst. Dir. Staff Adm: R. Koski. Dir. of Finnish Prgr: J. Koskiluoma. Dir. Swedish Prgr: Chr. Schildt. Dir. Eng: P. Arni. Asst. Dir. Eng: P. Velander. Dir. Finance: A. Paananen. Asst. Dir. Finance: M. Tamminen. Head Foreign Rel: Mrs. S. Palmgren.
STATIONS: Long and Medium Waves:

	kHz	m	kW	Prgr.	Prgr		kHz	m	kW	Prgr.	Prgr.
Lahti	254	1181	200	A		Turku I	962	312	100	A	
Oulu	433	693	10	A		Vaasa	1241	242	25	C	
Joensuu	520	577	1	A		Helsinki II	1412	212	2	C	
Helsinki I	557	539	100	A		Turku II	1412	212	0.4	C	
Kuopio	755	397	20	A		Tampere	1421	211	1	A	
Ylivieska	836	359	10	A		Pietarsaari	1484	202	1	C	
						Pori	1484	202	1	A	

FM	MHz	kW/W	Prgr. group	FM	MHz	kW/W	Prgr. group
Eurajoki II	87.7	15	B	Karigasniemi I	93.4	0.7	A
Lisalmi II	87.7	0.7	A	Koli II	93.4	20	B
Näätämö	87.8	10W	A	Tampere II	93.7	45	B
Joutseno II	88.0	25	B	Helsinki I	94.0	40	A
Ahtäri II	88.0	1	B	Rovaniemi II	94.0	10	B
Nuorgam I	88.6	0.02	A	Ylivieska I	94.0	15	A
Pihtipudas II	88.6	10	B	Kajaani	94.3	40	A
Tervola II	88.6	10	B	Kaunispää II	94.3	25	B
Mikkeli I	88.9	25	A	Pietarsaari	94.3	10	C
Pyhävuori III	88.9	15	C	Turku I	94.3	50	A
Forssa II	89.2	0.1	B	Mikkeli II	94.6	25	B
Loviisa	89.2	0.1	C	Pyhävuori I	94.6	15	A
Taivalkoski I	89.2	45	A	Ahtäri I	94.9	1	A
Kilpisjärvi	89.4	10W	A	Nuorgam II	95.2	0.02	B
Karigasniemi II	89.5	0.7	B	Sammaltunturi I	95.2	15	A
Pello II	89.5	3	B	Vaasa	95.2	6	C
Turku III	89.8	50	C	Lahti I	95.5	50	A
Jyväskylä II	89.9	25	B	Kerimäki I	95.8	15	A
Koli I	90.1	20	A	Ylivieska II	96.1	15	B
Lapua I	90.1	60	A	Kuopio II	96.2	25	B
Oulu I	90.4	50	A	Sippola II	96.4	5	B
Joutseno I	90.7	25	A	Rovaniemi I	96.7	10	A
Ruka I	90.7	0.7	A	Pihtipudas I	97.0	10	A
Tampere I	90.7	45	A	Tammisaari I	97.0	3	A
Utsjoki I	90.7	1	A	Oulu II	97.3	50	B
Pyhätunturi II	91.0	50	B	Kokkola II	97.6	3	B
Pyhävuori II	91.0	15	B	Pyhätunturi I	97.6	50	A
Mariehamn	91.3	5	C	Lahti II	97.9	50	B
Kuopio I	91.6	25	A	Sammaltunturi II	98.2	3	B
Taivalkoski II	91.9	45	B	Turku II	98.2	50	B
Helsinki II	91.9	40	B	Helsinki III	98.8	40	C
Eurajoki I	92.0	15	A	Kaunispää I	98.8	25	A
Tervola I	92.2	10	A	Kajaani II	98.9	40	B
Jyväskylä I	92.5	25	A	Kerimäki II	99.1	15	B
Forssa I	92.8	0.1	A	Pello I	99.1	15	A
Iisalmi II	92.8	0.7	B	Eurajoki III	99.4	3	C
Ruka II	92.8	0.7	B	Utsjoki II	99.4	1	B
Sippola I	92.8	5	A	Kokkola I	99.7	3	A
Lapua II	93.1	60	B	Tammisaari II	99.7	3	B
Tammisaari III	93.1	3	C				

HOME SCE:
Group A: W 04.00-22.00, Sun 05.30-22.00. **N:** W 04.00, 05.00, 06.00, 08.00, 09.30, 10.30, 12.00, 13.00, 14.00, 15.30, 17.00, 20.00, 22.00; Sun 06.30, 10.30, 15.30, 17.00, 20.00 — **Wrp:** 04.00, 05.00, 06.00 (Sun 06.30), 10.30, 17.10, 20.20 — **Wrp for seas** (in Finnish & Swedish): W 06.20, 11.00, 17.10, 20.20; Sun 10.50, 17.10, 20.20.
Group B N: W 19.00, 21.00, 22.00; Sun 19.00, 21.00.
Group C (Swedish) N: W 04.00, 05.00, 06.00, 08.00, 09.30, 10.30, 12.00, 13.00, 14.00, 15.00, 17.00, 20.00, 22.00. Sun 06.30, 10.30, 17.00, 20.00, 22.00 — **Wrp:** 04.00, 05.00, 06.00 (Sun 06.30), 10.30, 17.00, 20.00 — Wrp for seas as in group A.
Main Prgr: Group A: Both light and serious prgr.
Second Prgr: Group B: Light musical prgr. to 16.00 and after 21.00. Serious prgr: 16.00-21.00.
Swedish Prgr (Group C): 04.00-16.00 prgr in Swedish and music from group B. 16.00-20.30 prgr in Swedish. 20.30-22.00 music from group B. Exclusively Swedish: Mariehamn FM 91.3 MHz.

FOREIGN SERVICE
STATIONS: Pori (G.C: 21.52E/61.28N):

OIX7	6120kHz	49.02m	15kW	OIX8	11805kHz	25.41m	10kW
OIX2	9550kHz	31.41m	15kW	OIX4	15185kHz	19.76m	100kW

I = For Europe, II = For North America, HS = relay Home Sce. F + S = Finnish & Swedish.

Times	kHz	Area	Prgr
04.00-22.00(W)	6120	I	HS(F + S)
05.30-22.00(Sun)	6120	I	HS(F + S)
06.00-06.30(W)	9550	I	Finnish N 06.00
	11805	I	Swedish N 06.10
			Wrp. for seas 06.20
06.30-06.50(Sun)	9550	I	Finnish N 06.30
	11805	I	Swedish N 06.40
10.00-11.10(D)	9550	I	HS(F + S)
	11805	I	Finnish N 10.30
	15185	I	Swedish N 10.40
			Wrp. for seas 11.00
12.15-15.15(D)	9550	I	HS(F + S)
	11805	I	Swedish N 14.35
	15185	II	Mon 13.45-14.45 Prgr. for seamen
16.00-18.30(D)	9550	I	HS(F + S)
	11805	I	**Prgr. in English** W 18.00-18.30
	15185	I	(Sun 16.00-16.30)
			Swedish N 17.50
			Sun Prgr. for seamen 17.30-18.30
20.00-20.30	9550	I	N & current events
	15185	I	in Finnish
23.00-24.00(D)	15185	II	**Prgr. in English** 23.00-23.30
			Prgr. in Finnish 23.30-24.00

English: 18.00-18.15 (Sun 16.00-16.15) feature-prgr's & current events; Wed: 18.15-18.30 (Sat 16.15-16.30) DX-prgr (repeated 23.00-23.30).
ANN: Before and after each tr. there are st. ann. in Finnish Swedish and English. Finnish: "Suomen Yleisradio", Swedish: "Finlands Rundradio", English: "This is the Finnish Broadcasting Company".
INT-SIG: Based on an old Finnish Folk melody — **V.** by QSL-card.

PUB: Prgr-schedules to Listeners: schedules of the short wave tr's containing the same information as given in the World Radio Television Handbook, can be obtained by writing to "DX-Editor" of the Finnish Broadc. Co.
FI: by license payments — **ALF:** Fmk 20,–.

NOREA RADIO FINLAND

FI: By gifts from listeners and friends — **ADDR:** Box 10561, Helsinki 10 — **L.P:** Dir. Adm: E. Honkanen. Dir. Prgr: E. Hirvonen.
D.PRGR. in Finnish: Tues, Fri 16.30-16.45 on 11923kHz(100kW) over Radio Monte Carlo — **V.** by QSL-card.

FRANCE

L.T: GMT + 1 h — **Pr.L:** French.

OFFICE DE RADIODIFFUSION—TELEVISION FRANCAISE

(Publicly owned)
Central Service:
ADDR: Maison de l'O.R.T.F., 116 Avenue du Président Kennedy, Paris 16ème. **Cable:** ORTFDIR. **Te:** 2242222.
L.P: Pres. du Conseil d'Adm: P. de Leusse. Secr. Gen. du Conseil d'Adm: J. Chauveau. Dir. Gen: J. J. de Bresson. Prgr. Committee (Radio): A. Salacrou. Gen. Secr. of Prgr. Committees: G. E. Clancier. Chef du Service des Affaires Générales: R. Samama. Chef du Service de la Recherche: P. Schaeffer. Délégué aux Stations Régionales: B. Gouley. Comm. Dir: P. Peyre. Inspecteurs Généraux: P. Bodin, M. Freneau, A. M. Gérard, J. Landrac, P. Ragueneau. Dir. de l'Equipment et de l'Exploitation: C. Mercier. Dir. Adjoint chargé de l'Equipment: G. Chedeville. Dir. de l'Administration Générale: G. Riou. Dir. de la Radiodiff: R. Dhordain. Dir. de la Télévision: A. Francois. Dir. des Relations Extérieures: J. Flaud. Dir. Adjoint: M. Robida.
Regional Services:
32-34, rue Ulysse-Gayon, Bordeaux-2, rue Hoche, Dijon-36, bld de la Liberté, Lille-6, bld Victor-Hugo, Limoges-12, rue des Cuirassiers, Lyon-2, allée Ray-Crassi (Parc Chanot), Marseille-6, av. Hippolyte-Maringer, Nancy-9, av. Janvier, Rennes-Place de Bordeaux, Strasbourg-78, allées Jean-Jaurès, Toulouse.

HOME SERVICES

FRANCE INTER

	kHz	m	kW		kHz	m	kW
Allouis*	164	182.9	1100/500	Marseille	1493	200.9	1
Grenoble	1484	202.2	1	Strasbourg	1493	200.9	1
Montpellier	1484	202.2	1	Nimes	1594	188.2	1
Perpignan	1484	202.2	1	Toulon	1594	188.2	0.05
				Allouis**	6175	48.58	100

France

*) 05.00-23.00 1100kW; **) 10.00-21.00.
D.PRGR: On 164kHz: 24 h exc. Fri 03.03-04.00. Other tr's: 04.30-23.00.
N: On the h and 06.30. **"Inter Service Route"** (for motorists): 00.15, 03.45, 04.50, 06.55, 10.57, 18.55.

FRANCE INTER VARIETIES:

	kHz	m	kW		kHz	m	kW
Paris III	584	514	1	Mont-pellier	1403	214	10
Lyon	602	498	300	Rouen	1403	214	20
Marseille	674	445	150	Pau	1403	214	20
Rennes	710	423	150	Bayonne	1493	201	4
Limoges	791	379	100	Brest	1493	201	0.05
Nancy	836	359	150	Nantes	1493	201	0.05
Toulouse	944	318	100	Caen	1484	202	0.05
Paris II	1070	280	100	Dijon	1484	202	1
Strasbourg	1160	259	150	Poitiers	1484	202	1
Bordeaux	1205	249	100	Ajaccio	1493	201	10
Lille	1376	218	150	Tours	1493	201	0.05
Bastia	1403	214	4	Nice	1554	193	300
Brest	1403	214	20	Lorient	1594	188	0.05
Clermont-Fd.	1403	214	20	Angers	1594	188	0.05
				St. Quentin	1594	188	0.05

FM: * = 0.05kW, ** = 2kW, *** = 0.25kW; others 12kW.

	MHz		MHz
Toulouse**	87.9	Boulogne***	95.5
St. Quentin*	87.93	Mulhouse	95.7
Carcassonne	88.3	Mézières**	95.8
Vannes**	88.6	Bastia**	95.9
Le Havre***	88.9	Dijon**	95.9
Bordeaux**	89.7	Amiens*	95.95
Besançon**	90.0	Sens**	96.25
Clermont-Fd**	90.4	St. Raphael**	96.3
Nantes	90.6	°Rouen	96.5
Paris	90.35	Gap*	96.6
Bayonne*	91.0	Nimes*	96.8
Marseille	91.27	Reims	96.8
Perpignan**	92.1	Nancy***	96.9
Ajaccio**	92.4	Strasbourg	97.0
Le Mans	92.6	Valenciennes*	97.2
Brest	93.0	Reims*	97.43
Limoges	93.0	Digne*	97.9
Angers*	93.2	Antisanti***	98.2
Rennes	93.55	Metz*	98.5
Gex**	94.4	Tours*	98.7
Lille	94.7	Chambery**	99.0
Bourges	94.9	Grenoble**	99.4
Toulon**	94.9	Niort	99.4
Cherbourg***	94.15	Caen	99.6
Troyes	95.3	Metz	99.8
Aurillac	95.5	Lyon	99.8

Projected: Avignon**, Bayonne**, Chamonix*, Epinal***, Longwy**, Menton*, Montpellier**.

D.PRGR: All mw tr's are relaying France Inter from 04.30 to 23.00 with the following exceptions: W 19.30-23.00, Sun 14.00-17.00 & 19.30-23.00 (France Inter Variétes). Most mw-tr's radiate Reg. Prgr's as follows: 05.30-05.45, 06.30-06.45, 11.30-11.45, 13.03-14.00 (Sun), 18.15 (Sun 18.30)-18.55, 19.35-21.00 (Mon only), 21.00-22.00 (Fri only).
Nice (1554kHz) relays France Inter (164kHz) at 23.00-04.30 (Fri 23.00-24.00). (All mw-tr's of 10kW and more exc. Paris have a break Tues 08.00-10.30. All FM tr's exc. Paris have a break Thurs 13.00-16.00).

FRANCE CULTURE

	kHz	m	kW		kHz	m	kW
Bayonne	539	557	0.05	Strasbourg	1277	235	100
Paris	863	348	300	Bordeaux	1349	222	20
Brest	1241	242	20	Grenoble	1349	222	20
Lille	1241	242	20	Limoges	1349	222	20
Lyon	1241	242	20	Nantes	1349	222	10
Marseille	1241	242	20	Toulouse	1349	222	20
Nancy	1241	242	20	Saint-Brieuc	1493	201	0.05
Nice	1241	242	20	Besançon	1493	201	1
Rennes	1241	242	24				

FM: * = 0.05kW; ** = 2kW; *** = 0.25kW; others 12kW.

	MHz		MHz
Strasbourg	87.7	Metz	94.5
Grenoble**	88.2	Toulouse**	95.7
Bourges	88.5	Vannes**	96.0
Mulhouse	88.6	Niort	96.4
Nancy***	88.7	Carcassonne	96.5
St. Raphaël**	88.7	Gex**	96.7
Lyon	88.8	Ajaccio**	97.6
Le Mans	89.0	Besançon**	97.7
Bastia**	89.2	Brest	97.8
Cherbourg***	89.2	Troyes	97.9
Limoges	89.5	Lille	98.0
Toulon***	89.6	Bordeaux**	98.1
Mézières**	90.1	Aurillac**	98.0
Antisanti***	91.0	Rennes	98.3
Caen	91.53	Sens**	98.5
Chambery**	93.0	Clermont-Fd**	98.6
Le Havre***	93.3	Reims	98.85
Paris	93.35	Marseille	99.0
Dijon**	93.7	Perpignan**	99.8
Rouen	94.0	Boulogne***	99.9
Nantes	94.2		

Projected: Avignon**, Bayonne**, Chamonix*, Epinal***, Longwy**, Menton*, Montpellier**.

D.PRGR: 05.30-23.00. **N:** 06.30, 11.30, 19.30. **Reg. Prgrs.** from Grenoble, Strasbourg (mw) and Besançon (FM). Break in tr for mw's (exc. Paris) Fri 15.00-17.00 and FM tr's Wed 15.00-17.20.

FRANCE MUSIQUE:

FM: *0.05kW; **2kW; ***0.25kW; others 12kW.

	MHz		MHz
Ajaccio**	88.0	Besançon**	92.9
°Lille	88.7	Cherbourg***	92.35
°Reims	89.2	°Bordeaux**	93.5
°Boulogne***	89.4	Mézières**	93.5
Brest	89.4	Sens**	93.8
°Gex**	89.6	Bastia**	93.9
°Metz	89.7	°Marseille	94.2
Rennes	89.9	Antisanti***	94.8
°Chambery**	89.9	°Strasbourg	95.0
Carcassonne	90.9	°Clermont-Fd**	95.5
Niort	91.1	°Caen	95.6
Troyes	91.4	Le Mans	97.0
°Toulouse**	91.5	°Toulon**	97.1
°Mulhouse	91.6	°Perpignan**	97.2
Bourges	91.8	Limoges	97.5
Grenoble**	91.8	°Paris***	97.6
°Nancy***	91.8	°Le Havre***	98.5
Vannes**	91.8	Nantes	98.9
Aurillac**	91.9	Dijon**	99.2
°Rouen	92.0	°St. Raphaël**	99.6
°Lyon	92.4		

°) Stereophonic broadcasts — **Projected:** Avignon**, Bayonne**, Chamonix*, Epinal***, Longwy**, Menton*, Montpellier**.

D.PRGR: 06.00-23.00. **N:** 06.30, 11.30, 18.15 — All tr's (exc. Paris) have a break in tr's Thurs and Fri 07.15-10.30.

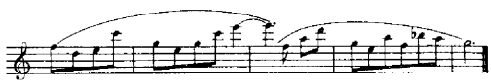
FOREIGN LANGUAGE BROADCASTS ON MEDIUM WAVES

German: 18.15 (Sun 18.30)-19.00 on 1277kHz (Strasbourg) — **Italian:** Mon-Fri 05.30-05.40 on France Culture Netw — **Polish:** W 17.30-18.00 on 1376kHz (Lille) — **Portuguese:** Mon-Fri 05.40-05.50 on France Culture Netw — **Spanish:** Mon-Fri 05.50-06.00 on France Culture Netw, 22.00-23.00 on 944kHz (Toulouse).

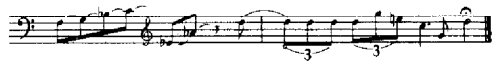
SPECIAL BROADCASTS:

Paris IV 962kHz 312m 10kW + FM 87.8MHz 12kW: Sat 13.00-17.00, Sun 08.00-16.00 (University broadcasts).
ANN: "France Inter" — "Inter Variétes" — "France Culture" — "France Musique".

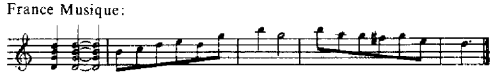
INT-SIG: France Inter:



France Culture:



France Musique:



FOREIGN SERVICE

STATIONS: Allouis et Issoudun:
(G.C: 02.00E/4700N, 02.13E/47.10N): 20 × 100kW tr's.

kHz	m	kHz	m	kHz	m	kHz	m
5955	50.38	9585	31.30	15155	19.80	17765	16.89
5960	50.34	9620	31.19	15160	19.79	17850	16.81
6175	48.58	9700	30.93	15200	19.74	17875	16.79
7160	41.90	11725	25.59	15245	19.68	21450	13.99
7255	41.35	11775	25.48	15380	19.50	21525	13.94
7260	41.32	11845	25.33	17720	16.93	21580	13.90
7280	41.21	11920	25.17	17730	16.92	21620	13.87
9520	31.51	11975	25.05	17735	16.92	21645	13.86
9560	31.38	15120	19.84	17740	16.91	21650	13.86

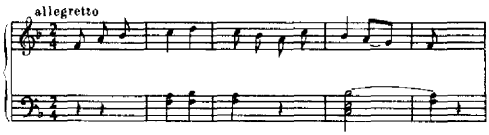
I = Polynesia/New Caledonia; II = Africa; III = Antarctica; IV = Antilles/Guyana/St. Pierre & Miquelon; V = Far East; VI = Reunion/Comores; VII = Middle East; IX = Latin America; X = Europe.

Arabic	Area	kHz	Beam
17.30-19.00	VII	11920, 15160	120°
19.15-22.00	II	7280, 9585	180°
Bulgarian			
16.30-17.00	X	5955, 7260	88°/85°
		9520, 11845	105°
Czech			
19.45-20.10	X	5955, 7260	50°/60°
		9520, 11845	60°
English			
05.15-05.30	II	9700, 11975	182°/162°
11.00-11.15	II	17850, 21650	162°
19.15-19.30	II	15380, 21580	162°

French	Area	kHz	Beam
05.00-05.15	II	9700, 11975	180°/162
06.00-07.30	I	5960, 9620	305°/295°
		9585, 11845	227°
06.00-07.30	IV/VI	17765, 21620	138
07.00-07.15	II	17740, 21580	162
07.30-08.00 (Mon)	III	17765, 21620	138
07.30-10.30*	II	21620	138
09.00-10.00 (Sun)	X	7160	60
10.30-12.40	IV	15245, 17765	263
		17740	295°
		21580, 21645	245°/120°
10.30-12.40	VI	17720, 21620	138°
11.00-22.00*	X	6175	omnidir
11.30-11.45	II	17850, 21650	162°
12.40-19.00*	VI	21620	138°
13.30-14.00	V	15245, 17735	70°
	V/II	21525, 21580	70°/162°
14.00-17.00**	II	21580	162°
15.15-15.30	VII	15155, 21450	104°/120°
16.45-17.30*	VII	11920, 15160	120°
19.00-19.15	II	15380, 21580	162°
19.00-20.00*	VII	11920, 15160	120°
19.00-20.00	IV	17850, 21645	245°/263°
	VI	21620	138°
Greek			
12.15-12.45	X	15160, 17875	104°
Hungarian			
18.10-18.40	X	5955, 7260	88°/85°
		9520, 11845	105°
Kabyle			
19.00-19.15	X	7280, 9585	180°
Polish			
10.00-11.00 (Sun)	X	9560 (Mass)	60°
20.25-21.05	X	5955, 7260	50°/60°
		9520, 11845	60°
Portuguese			
11.15-11.30	II	17850, 21650	162°
18.45-19.00	II	15380, 21580	162°
19.45-20.15	X	9560, 11775	227°/208°
00.00-00.30	IX	11920, 15120	245°
		17730,	227°
Rumanian			
17.00-17.30	X	5955, 7260	88°/85°
		9520, 11845	105°
Russian			
18.45-19.45	X	5955, 7260	50°/88°
		9520, 11845	60°
Serbo-Croat			
17.40-18.10	X	5955, 7260	88°/85°
		9520, 11845	105°
Slovak			
20.10-20.25	X	5955, 7255	50°/60°
		9520, 11845	60°
Slovenian			
17.30-17.40	X	5955, 7260	88°/85°
		9520, 11845	105°
Spanish			
00.30-01.00	IX	11920, 15120	245°
		17730, 21580	227°
02.30-03.00	IX	11725, 15200	295°
		11920, 15120	245°
		17730, 21580	227°

*relay France Inter; **Relay Inter Variétes (Sport & Music = Sun only).

ANN: "Ici Paris, Office de Radiodiffusion-Télévision Française".
INT-SIG: Popular song: "Nous n'irons plus au bois".



V. by QSL-card. **AIR:** Frcs 30,-.

O.C.O.R.A. (Office de Coopération Radiophonique).
an organization the purpose of which is improvement and development of Broadc. and Television in "les Etats Independants d'Afrique d'expression Française".
ADDR: 46, rue d'Amsterdam, Paris 9è. **Cable:** OCORA. **Te:** 285.11.11 — **L.P:** Pres. of the Board of Adm: J. J. de Bresson. Dir. Gen: F. Cardin. Secr. Gen: G. Ridoux.
STATIONS: R. Bujumbura (Burundi), R. diff. de Cameroun (Yaoundé, Douala, Garoua), R. Bangui (Bangui), R. Congo (Brazzaville), R. diff. Nationale (Kinshasa), R. Abidjan (Abidjan), R. diff. du Dahomey (Cotonou), R. Gabon (Libréville), R. Haute Volta (Ouagadougou), R. diff. Nationale Malgache (Tananarive), R. Mali (Bamako), R. Mauritania (Nouakchott), R. Niger (Niamey), R. Rwanda (Kigali), R. diff. du Sénégal (Dakar), R. diff. Nationale Tchadienne (Fort Lamy), R. diff. du Togo (Lomé).

GERMANY

GERMAN FEDERAL REPUBLIC

L.T: GMT + 1 h — **Pr.L:** German.

Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland (ARD).
Broadcasting (Radio and Television): Chmn: Intendant Chr. Wallenreiter. Bayerischer Rundfunk, 8 München 2, Rundfunkplatz 1 —

Permanent Office: Assessor Chr. Strupp, 6 Frankfurt/Main, Bertramshof — **Members:** Bayerischer, Hessischer, Norddeutscher, Saarländischer, Süddeutscher und Westdeutscher Rundfunk, Radio Bremen, Sender Freies Berlin, Südwestfunk, Deutschlandfunk, Deutsche Welle, and as guest partaker at meetings: RIAS, Berlin **ALF:** DM 84.00 (Radio 24.00 + TV 60.00).

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

Addr: 8 München 2, Rundfunkplatz 1. **Cable:** Bayernfunk. **Te:** 59001 — **L.P:** Intendant: Chr. Wallenteiter. Prgr. Dir: W. von Cube. Dir. Adm: H. Spies. Dir. Tec: Dr. F. Daser.

HOME SERVICE

FIRST PRGR (on all frequencies: W 04.30-23.10; Sat 04.30-24.00; Sun 05.00-24.00; * = night only.

M. Waves	kHz	m	kW		kHz	m	kW
Bayreuth	520	577	0.2*	Hof	1602	187	0.4*
Würzburg	520	577	0.2*	Kirchheim	1602	187	20*
Passau	520	577	0.2	Coburg	1602	187	1*
München	800	375	100	Regensburg	1602	187	1
Nürnberg	1602	187	20/40*				

From spring 1969 the following st's will operate only:

M. Waves	kHz	m	kW		kHz	m	kW
Hof	520	577	0.2*	Nürnberg	800	375	**
Passau	520	577	0.2	München	1602	187	***
Würzburg	520	577	0.2*				

** = day: 50/100kW; night: 50kW — *** = day: 200/370kW; night: 200kW.

Short Wave (G.C.: 11.45E/48.15N): DMR24 6085kHz 49.30m 10kW: W 04.30-23.10; Sat 04.30-24.00; Sun 05.00-24.00.

FM:	ch	MHz	kW	FM:	ch	MHz	kW
Berchtesgaden I	3	87.8	0.3	Bad Reichenh. I	19	92.8	0.3
Lindau I	4	88.1	0.4	Wendelstein I	22	93.7	100
Herzogstand I	4	88.1	0.1	Garm. Partenk. I	22	93.5	0.5
Dillberg I	6	88.9	24	Bamberg I	26	94.8	6
Landshut I	11	90.2	0.1	Aschaffenburg I	29	95.6	17
Grünten/Allgäu I	12	90.7	100	Ochsenkopf			
Reit i. Winkl I	13	91.0	0.1	Fichtelg. I	30	96.0	100
München I	14	91.3	6	Hoher Bogen I	33	96.8	20
Hühnerberg I	16	91.9	6	Traunstein Hb.	37	98.0	2
Brotjacklriegel I	17	92.1	100	Kreuzb/Rhön I	38	98.3	100

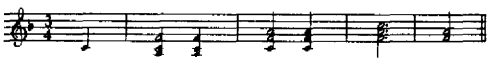
N. Wrp: 05.00, 06.00, 07.00, 11.00, 12.00, 16.00, 18.00, 20.00, 22.00, 23.00. Sun 06.00, 07.00, 12.00, 16.00, 18.00, 20.00, 22.00, 23.00 — **"Cronik des Tages":** W 17.00 — **Request Prgr:** Wed 18.25.
Night Prgr: W 23.10 (Sat/Sun 00.00) — 04.20 on 520kHz (Bayreuth, Würzburg) & 1602kHz (all st's) and on all FM st's. From spring 1969 on 520kHz (Hof, Wurzburg), 800kHz & 1602kHz.
N: 00.00, 01.00, 02.00, 03.00, 04.00 — **N. in English, French, German:** 08.00.

SECOND PRGR: Mon-Fri 04.30-09.20, 09.30-23.10; Sat 04.30-24.00; Sun 05.00-24.00 — **Relay First Prgr:** 04.30-05.05, Sat 23.00-24.00; Sun 05.00-06.05, 23.00-24.00.

FM:	ch	MHz	kW	FM:	ch	MHz	kW
Gelbelsee	2	87.6	10	Fichtelgeb. II	12	90.7	100
Tegernseer Tal	2	87.7	0.3	Berchtesgaden II	14	91.2	0.3
Reit i. Winkl II	3	87.9	0.1	Lindau II	17	92.0	0.4
Büttelb/Frankenh.	4	88.2	7	Dillberg II	18	92.3	24
Coburg	4	88.3	2	Hohe Linie	20	93.0	8
Aschaffenb. II	5	88.4	6	Kreuzb/Rhön II	20	93.1	100
München II	5	88.4	6	Passau II	21	93.2	0.3
Grünten/Allgäu II	6	88.7	100	Hohenpeissenb.	24	94.2	8
Würzburg II	7	89.0	2	Hoher-Bogen II	25	94.4	20
Garm. Partenk. II	7	89.2	0.5	Brotjacklriegel II	32	96.5	100
Wendelstein II	8	89.5	100	Herzogstand II	33	97.0	0.1
Bamberg II	9	89.6	6	Landshut II	36	97.8	0.1
Ochsenkopf/				Bad Reichenhall II	42	99.5	0.3

N: W 05.00, 06.00, 07.00, 11.00, 17.00, 19.00, 21.00, 23.00; Sun 06.00, 11.05, 19.00, 21.00, 23.00 — **Request Prgr:** Sun 13.00.

THIRD PRGR: Grünten III ch29 95.8MHz 100kW, München III ch34 97.3MHz 15kW, Dillberg III ch36 97.9MHz 12kW, Hühnerberg III ch42 99.5MHz 3kW.
For foreign workers: 17.00 Turkish, 17.45 Italian, 18.30 Spanish, 19.15 Greek.
ANN: "Hier ist der Bayerische Rundfunk". E: "This is der Bayerische Rundfunk" — V. by QSL-card or letter.
INT-SIG:



PUB: "Pressedienst" (weekly) — **AD:** Mon-Fri 05.25-06.00, 12.45-13.30. Sat 05.25-06.00, 06.45-07.00, 08.10-08.50.

Germany

DEUTSCHE WELLE (Anstalt des öffentlichen Rechts)
ADDR: Bruederstr. 1, Postfach 344, 5 Köln. **Te:** 20301. **Telex:** 888485 – **L.P:** Intendant: Walter Steigner. Dir. Prgr: C. von Chmielewski (commissarial). Dir. Tec: G. Roessler. Dir. Adm: Dr. H. Fellhauer. Dir. Transcription: C. von Chmielewski. DX-Editor: G. G. Thiele.
Stations: Jülich DMQ — 9 × 100kW; Kigali/Rwanda (relay): 1 × 250kW — **G.C:** Jülich 06.22E/50.57N; Kigali 30.07E/01.53S.

kHz	m	kHz	m	kHz	m	kHz	m
6025	49.79	9565	31.36	11925	25.16	15435	19.44
6075	49.38	9605	31.23	11945	25.12	17705	16.94
6100	49.18	9610	31.22	11965	25.07	17765	16.89
6120	49.02	9640	31.12	15205	19.73	17790°	16.86
6130	48.94	9650	31.09	15245	19.68	17845	16.81
6145	48.82	9655	31.07	15275	19.64	17875	16.79
6185	48.50	9735	30.82	15300	19.61	21560	13.91
7130	42.08	9765	30.72	15315°	19.59	21580	13.90
7275	41.24	11785	25.46	15380	19.50	21650	13.86
7290	41.15	11795	25.43	15405	19.47	21705	13.83
9545	31.43	11905	25.20	15410	19.47		

°) used in March/April only.

OVERSEAS SERVICE
Abbreviations: I = Ea. Asia/Australia/New Zealand; II = So. Asia; III = No. Africa/M. East; IV = Europe; V = Africa; VI = We. Africa; VII = So. America (East); VIII = No. America (East); IX = C. America; X = No. America (West); XI = East Europe; XII = So. Europe.
GERMAN PRGR: *) Relay st. Kigali.

H. of tr.	Area	kHz
06.45-09.45	I	9650, 11795, 15205, 21580
06.45-09.45	IV	6075
12.50-15.50	II	15275, 17875, 21705
16.00-19.00	III	9655, 11795, 15405
16.00-19.00	IV	6075
17.15-20.15	V	11785, 15275
20.30-23.30	VI	*15380
22.30-01.30	VII	9610, 9735, 11925, 11965, 15410
00.00-03.00	VIII	6075, 6100, 9545, *11795
01.45-04.45	IX	6130, 6145, 9605
03.00-06.00	X	6075, **6100, 9735

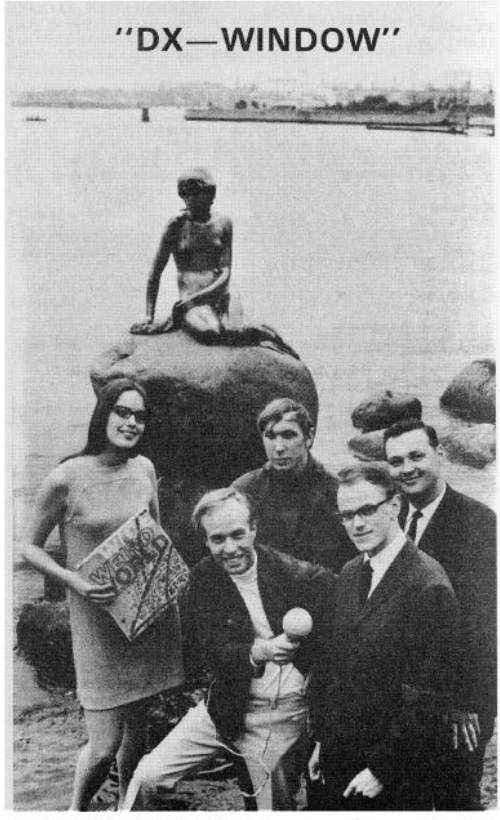
**) to be replaced by 11795kHz during March/April.
N: 06.45, 07.45, 09.30, 12.50, 13.50, 15.35, 16.00, 17.00, 17.15, 18.15, 18.45, 20.00, 20.30, 21.30, 22.30, 23.15, 23.30, 00.00, 01.00, 01.15, 01.45, 02.45, 03.00, 04.00, 04.30, 05.45.
Comm: After first N — **"Wie wir leben"**: Wed — **"Unter uns gesagt"**: Wed — **DX Prgr:** (in German and English): Every second Mon/Tues: 09.15, 15.20, 18.30, 19.45, 23.00, 01.00, 02.30, 04.15, 05.30 — **Technische Hinweise** (in German): Every fourth Mon/Tues: Times as for DX-Prgr.

FOREIGN LANGUAGE PRGR:

H. of tr.	Area	kHz	L	N
01.30-02.50	VIII	6185, 9640, 9735	**English**	01.32
03.00-03.40	II	9545, 9640, 11945	**English**	03.02
03.00-03.30	V	*9565	Amharic	03.02
03.45-04.30	V	*9565	Swahili	03.47
04.30-05.00			**English**	04.32
05.00-05.30			French	05.02
03.45-04.20	VII/IX	6185a, 9640, 11945	Spanish	03.47
04.25-05.50	III	9610, 9640, 11965	Arabic	04.27
04.45-05.45	X	6145, 9545, 9650b	**English**	04.47
05.55-06.35	VII	6145, 9545, 11945	Spanish	05.57
05.45-06.30	VI	*11905	**English**	05.47
06.30-07.00			Hausa	06.32
07.00-07.45			French	07.02
06.00-06.30	V	11785, 15275, 17845	**English**	06.02
06.30-07.00			Hausa	06.32
07.00-07.25			French	07.02
06.10-06.40	XII	9610, 9650, 11795	Turkish	06.12
07.30-08.05	II	15275, 17845, 21650	Hindi	07.32
08.05-08.40			Urdu	08.07
08.45-09.40	I	11785, 15275, 17845 21650	**English**	08.47
10.45-11.00	V	*11785	**English**	10.47
11.00-11.45			Swahili	11.02
09.50-10.40	III	15435, 17845, 21650	Persian	09.52
09.55-10.30	V	15275, 17875, 21560	Swahili	09.57
10.30-10.45			Hausa	10.32
10.45-11.00			**English**	10.47
11.00-11.15			French	11.02
11.15-11.45			Amharic	11.17
10.00-10.30	XII	9640, 11795	Greek	10.02
10.20-10.50	XII	9735	Italian	10.22
10.45-10.55	VIII	9605, 11905, 11965c	**English**	10.47
11.00-12.00	XI	9640, 11925, 11965	Rumanian	11.02
11.05-12.05	XI	6145, 6185, 7130	Czech/Slov.	11.07
11.45-12.45	I	15245, 17845, 21705	Mandarin	11.47
12.00-12.45	VI	*17765	**English**	12.02
12.45-13.15			Hausa	12.47
13.15-14.00			French	13.17
12.10-13.20	I	15405, 17875, 21650	Indonesian	12.12
12.20-13.20	XI	9640, 11925, 15300	Bulgarian	12.22
13.30-14.30	XI	6075, 7275, 9640	Hungarian	13.32
13.30-15.00	XI	6145, 7130, 9735	Polish	13.32
14.15-14.45	V	*15435	Amharic	14.17
14.40-15.50	XI	6075, 7275, 9640	**Serbo-Croat	14.42
15.00-16.15	V	*9735	Swahili	15.02
16.15-16.45			French	16.17
16.45-17.30			**English**	16.47
15.10-16.10	XI	9545, 11925, 15245	Russian	15.12
15.50-16.20	II	15275, 17875	**English**	15.52
16.20-17.05	XI	6025, 7130	Czech/Slov.	16.22
16.25-17.20	III	11925, 15435, 17765d	Persian	16:27
17.25-17.55	XII	7130, 9545, 11925	Turkish	17.27
17.45-18.45	V	*17765	**English**	17.47
18.45-19.45			French	18.47
19.45-20.15			Hausa	19.47
18.00-19.30	XI	6145, 7130, 9765	Russian	18.02
19.00-19.10	VIII	9605e, 11795, 15405	**English**	19.02
19.15-20.40	III	9655, 9735, 11975, 15405	Arabic	19.17
19.40-20.30	XII	6120, 9605	Spanish	19.42
20.40-21.30	XII	6120, 9605	Portuguese	21.15
20.45-21.30	XI	6185, 7130	Rumanian	20.47
21.05-21.25	V	9735, 11925	Amharic	21.07
21.25-21.45			Swahili	21.27
21.45-22.05			**English**	21.47
22.05-22.25			French	22.07
21.10-22.00	I	7290, 9765, 15275	**English**	21.12
21.40-22.40	VII	9545, 9655, 11795	Portuguese	21.42
22.40-23.50	VII/IX	15435	Spanish	22.42

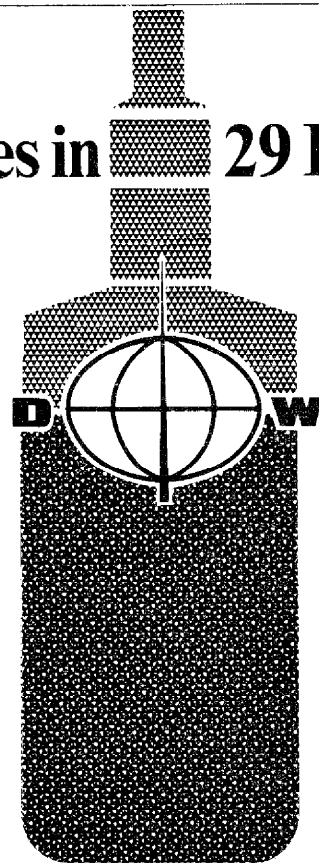
*) Relay st. Kigali — **) 15.20-15.50 Slovenian (Tues/Thurs/Sat) — **March/April:** a) to be replaced by 6075kHz; b) to be replaced by 11945kHz; c) to be replaced by 15315kHz; d) to be replaced by 17845kHz; e) to be replaced by 17790kHz.
ANN: G: "Hier ist die Deutsche Welle". E: "This is R. Deutsche Welle, the Voice of Germany". F: "Ici la Voix de l'Allemagne". Sp: "Habla la Voz de Alemania". P: "Esta é Voz de Alemanha".
INT-SIG: Motif from "Fidelio" by Beethoven. "Es sucht der Bruder seine Brüder" played on Celeste.

V. by QSL-card (10 min. prgr. details required). Recordings accepted. — **PUB:** Monthly Prgr. sched. free.



Staff of THE DX-WINDOW: Susanne Jackson, The Little Mermaid (Sea Wave News), Christian Flagstad, Kaj Bredahl Jørgensen, Anker Petersen and Tor-Henrik Ekblom.
(Photo: Helge Jensen)

82 Programmes in 29 Languages



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The Voice of Germany
The Shortwave Station of the Federal Republic

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Deutsche Welle
5 Köln
P.O.B. 344
Federal Republic of Germany

Germany

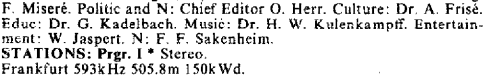
DEUTSCHLANDFUNK (Gemeinnützige Anstalt des öffentlichen Rechts)

Purpose: Veranstaltung von Rundfunksendungen für Deutschland und das europäische Ausland, die ein umfassendes Bild Deutschlands vermitteln.
ADDR: 5 Köln-Marienburg, Lindenallee 7. **Te:** 37031. **Telex:** 0888-1262 — **L.P:** Intendant: F. Thedieck. Dir. Actual Prgr: St. Thomas. Dir. Cultural Prgr: Dr. J. Petersen. Dir. European Prgr: Dr. J. Reiss. Sendeleiter: E. Imelmann. Verwaltungsdirektor und Justitiar: Freiherr von Seli. Dir. of Engineering: O. Scheffler. Chief Press Dept: Dr. K. Wagenführ.

STATIONS	kHz	m	kW		kHz	m	kW
Donebach	151	1986	70	Königslutter	755	397.4	200
Königslutter	548	547.4	800	Neumünster	1268	236.6	600
Bad Dürrheim	548	547.4	20	Mainflingen	1538	195.1	700
Ravensburg	755	397.4	40				

N: Every h on the h 04.00-03.00, also at 03.30, 04.30, 05.30, 06.30, 18.30, 20.30. **Deutsche Presseschau:** W 06.05, 08.05 — **Interview der Woche:** Sun 10.05 — **Landfunk:** W 10.50 — **Revue der Woche:** Sat 11.30 — **Internationale Presseschau:** W 16.50 — **Politische Bücher:** Sun 16.45 — **Wirtschaftsfunk:** Mon-Fri 17.05 — **Deutschlandecho:** W 18.05 — **Die Woche in Deutschland:** Sat 18.45 — **Theman des Tages:** Mon-Fri 18.45 — **Thema der Zeit:** Sun 18.45 — **Prisma der Welt:** Mon, Tues, Thurs, Fri 20.40 — **Das Feuilleton:** Sun, Wed, Sat 20.40 — **Echo der Zeit:** Sun 21.00.

FOREIGN SERVICE: On 1538kHz: W 19.00-22.10.
19.00 Polish, 19.30 Czech, 20.00 Serbian/Croatian, 20.30 Rumanian, 21.00 Hungarian, 21.30 French.
On 1268kHz: W 17.45-21.00.
English 17.45, German 18.30, Dutch 19.00, Danish 19.30, Norwegian 20.00, Swedish 20.30.
DX-Prgr: "MW 1268kHz": Swedish Wed, Sat 20.45; Norwegian: Tues 20.10.
ANN: "Hier ist der Deutschländfunk" — **INT-SIG:** "Du Land voll Lieb' und Leben" from the folksong "Ich hab' mich ergeben" (played on Celeste).



EUROPE NO. 1 (Comm.)

ADDR: Europäische Rundfunk und Fernseh AG, Europa Nr. 1, 6600 Saarbrücken, P.O. Box 301. **Te:** 24162 — **L.P:** Mgr: F. Billmann. **For Programmes:** Télécompagnie 26 bis, Rue Francois Ier, Paris 8e. **Cable:** Euradio. **Te:** Alma 9000. **L.P:** Pres: S. Floirat. Gen. Mgr: M. Siegel — **For Advertisements:** Regie No. 1, 28, Rue Francois Ier, Paris 8e. **L.P:** Gen. Mgr: J. Frydman.
STATION: Felsberg 180kHz 1667m 400/1000kW.
HOME SCE, in French: 04.55 (Sun 05.30)-24.00.
N: 04.55, 05.25, 05.55, 06.25, 06.55, 07.25, 07.55, 08.30, 09.00, 09.30, 10.00, 10.30, 11.00, 13.00, 13.30, 14.00, 14.30, 15.00, 15.30, 16.00, 16.30, 17.00, 17.30, 20.00, 20.30, 21.00, 22.00, 22.30, 23.00, 23.30, 24.00.
ANN: F: "Ici Europe No. 1" — **V.** by QSL-card. Re. to Europe No. 1, Saarlouis, P.O. Box 209, Germany.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR: 6000 Frankfurt (Main) 1, Postfach 3294, Bertramstr. 8. **Cable:** Hessfunk. **Te:** 59051. **Telex:** 0411127 — **L.P:** Interdant: W. Hess. Dir. Adm: Dipl. Kfm: H. Weber. Chief Legal Adviser: W. Lehr. Publicity: R. Weigand. Press: G. Zimmermann. Dir. Prgr. (Radio): Dr. H. Wicht. Dir. Prgr. (TV): H. Otto Grünefeldt. Dir. Tec: Dr. Ing. F. Miseré. Politic and **N:** Chief Editor O. Herr. Culture: Dr. A. Frisé. Educ: Dr. G. Kadelbach. Music: Dr. H. W. Kulenkampff. Entertainment: W. Jaspert. **N:** F. F. Sakenheim.
STATIONS: Prgr. I * Stereo.
Frankfurt 593kHz 505.8m 150kWd.
Meissner 593kHz 505.8m 100kWd.

FM:	ch	mHz	kW	FM:	ch	mHz	kW
Würzberg	4	88.1	0.25	Feldberg*	32	96.7	10
Biedenkopf	13	91.0	10	Würzberg	35	97.4	0.25
Rimberg	14	91.25	3	Biedenkopf*	42	99.6	10
Hardberg	12	90.6	3	**Prgr. III:**			
Feldberg	25	94.4	10	Biedenkopf	2	87.6	10
Meissner	40	99.0	10	Feldberg	8	89.3	10
Prgr. II:				Meissner	8	89.5	10
Rimberg*	27	95.0	3	Hardberg	19	92.65	0.8
Hardberg*	28	95.3	3	Rimberg	36	97.7	3
Meissner*	28	95.5	10				

HOME SCE: Two prgr's day and night. The night prgr. at 23.10-05.00 on 593kHz (Frankfurt & Meissner) and FM ch25 & 40.
N: Every h on the h — **Wrp:** after N — **L.L:** French: Thurs, Sat 16.00 III; English: Fri, Sun 16.00 III; Sat 07.35 II; Spanish: Sat 07.50 II.
AD: Mon-Fri 04.20 (II), 07.15 (I), 11.15 (II), 12.15 (I); Sat 05.10 (II), 07.15 (I), 08.05 (II), 10.15 (I), 11.05 (II), 12.15 (I).
Third Prgr: D 16.00-21.50 for Italian, Turkish, Spanish and Greek workers in the Fed. Rep. of Germany.
ANN: "Hier ist der Hessische Rundfunk" or "Hier ist Frankfurt" — **INT-SIG:** Electronic music — **V.** by QSL-card — **PUB:** Prgr. schedule, press releases.

NORDDEUTSCHER RUNDFUNK
(Anstalt des öffentlichen Rechts)

ADDR: Hamburg 13, Rothenbaumchaussee 132/34. **Cable:** Nord Funk. **Te:** 441931. Funkhaus Hannover: Rudolf-von-Bennigsen-Ufer 22; Landesstudio Kiel: Wall 74; **Studios:** Flensburg: Friedrich-Ebert-Str. 1, Oldenburg i. O. Jägerstr. 30; Berlin: Berlin-Grunewald, Hubertusallee 26; Bonner Vertretung, Bonn, Dahlmannstr. 14.
L.P: Intendant: G. Schröder. Deputy: L. Frhr. v. Hammerstein. Dir. Prgr. (Radio): F. Reinholz. Dir. Prgr. (TV): D. Schwarzkopf. Financial Dir: G. Schulz. Dir. Tec: Dr. H. Rindfleisch. Justitiar: J. Frels. Dir. Funkhaus Hannover: Dr. E. G. Mahrenholz. Informations und Auslandsdienst: M. Jenke.

HOME SERVICE

FIRST PRGR: 03.55 (Sun 04.58)-00.15 (Sat 01.15).
Night Prgr on 971kHz (Hamburg), 1570kHz (Osnabrück), 701kHz (Flensburg), 520kHz (Braunschweig) and FM: 89.9/91.2/92.4MHz: Sun-Fri 00.15-03.30, Sat 01.15-04.30. **N:** 01.00, 02.00, 03.00.

	kHz	m	kW		kHz	m	kW
Braunschweig	520	577	2	Flensburg	701	428	5
Aurich	701	428	2	Hannover	971	309	40
Lingen	701	428	2	Oldenburg	971	309	40
Göttingen	971	309	5	Kiel	1570	191	5
Hamburg	971	309	300	Osnabrück	1570	191	5

FM Stations (relay m.w. prgr. exc. night prgr.):

	ch	MHz	kW		ch	MHz	kW
Göttingen	5	88.55	1.2	Steinkimmen	14	91.1	70
Bungsberg	10	89.9	4.5	Dannenberg	14	91.2	15
Harz	10	89.9	100	Kiel	14	91.3	3
Aurich	10	90.05	25	Osnabrück	18	92.4	2
Hamburg	11	90.3	80	Lingen	19	92.8	15
Heide	12	90.5	15	Lübeck	20	93.1	0.06
Hannover	13	90.9	3	Flensburg	30	96.05	3

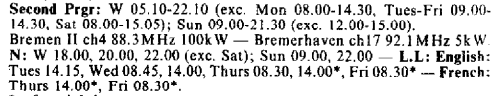
N, Wrp: 05.00 (W), 06.00, 07.00, 08.00, 09.00 (W), 10.00, 11.00 (W), 12.00, 13.00 (Mon-Fri), 14.00, 15.00 (Mon-Fri), 16.00, 17.00 (Mon-Fri), 18.00, 21.00, 22.00, 23.00 — **Rlg:** 09.00, W 05.55.
SECOND PRGR: 05.00 (Sun 07.00)-23.05.

	ch	MHz	kW		ch	MHz	kW
Hamburg	2	87.6	80	Göttingen	30	96.1	1.2
Osnabrück	7	89.2	2	Hannover	30	95.9	3
Lübeck	13	90.9	0.06	Heide	31	96.3	15
Bungsberg	16	91.9	4.5	Lingen	36	97.8	15
Harz	17	92.1	100	Aurich	37	98.15	25
Dannenberg	21	93.3	5	Kiel	38	98.3	3
Flensburg	21	93.2	15	Steinkimmen	43	99.8	70

N: 05.30 (W), 06.30 (W), 07.30, 08.30 (W), 09.30 (W), 10.30, 11.30 (W), 12.30 (Sun-Fri), 13.30 (Mon-Fri), 14.30, 15.30 (Mon-Fri), 16.30 (Mon-Fri), 17.30, 18.30, 20.30, 21.30 (Mon-Fri), 22.30.
THIRD PRGR: Mon-Fri 10.00-15.00, D. 15.00-21.30.

	ch	MHz	kW		ch	MHz	kW
Flensburg	9	89.6	15	Dannenberg	31	96.4	1.2
Lingen	11	90.2	1.25	Bungsberg	36	97.8	4.5
Göttingen	24	94.1	1	Harz	37	98.0	100
Steinkimmen	25	94.4	70	Hannover	39	98.7	3
Kiel	25	94.5	3	Osnabrück	39	98.8	2
Lübeck	29	95.7	0.06	Hamburg	41	99.2	80
Aurich	29	95.8	25	Heide	41	99.4	15

Prgr. for Foreign workers:
Braunschweig ch2 87.7MHz 0.5kW, Hannover ch19 92.65MHz 0.3kW, Hamburg ch33 97.05MHz 0.35kW.
ANN: 1st Prgr: "Hier ist das Erste Programm des Norddeutschen Rundfunks". 2nd Prgr: "Hier ist das Zweite Programm des Norddeutschen Rundfunks". 3rd Prgr: "Hier ist das Dritte Program des Norddeutschen Rundfunks und des Senders Freies Berlin".
INT-SIG: 1st Prgr: Motif from the first movement of Johs. Brahms' Symphony no. 2.



2nd Prgr: "Einen zerlegten Nonen-Akkord" — **3rd Prgr:** The tones "B-A-C-H" in Regerharmonization — **V.** by QSL-card — **PUB:** "NDR-Information" (weekly), "NDR-Vorschau" (weekly). Prgr. sched. (weekly).

RADIO BREMEN (Anstalt des öffentlichen Rechts)

ADDR: Heinr. Hertz Str. 13, Bremen. **Te:** 45881. **Cable:** Radio — **L.P:** Dir. Prgr: H. Abich. Dir. Tec: H. Heyer. Dir. Adm: H. Oliver.
HOME SCE: First Prgr (Hansawelle Bremen): 05.00 (Sun 06.00)-23.10. 1079kHz 278.0m 100kW* — 1358kHz 220.9m 20kW**.
Bremerhaven 1079kHz 278.0m 2kW** + SW: 6190kHz 48.47m 10kW (G.C: 08.53E/53.07N) from 07.00.
*) daytime; **) nighttime.
F.M: Bremen 1 ch23 93.8MHz 100kW — Bremerhaven 1 ch8 89.5MHz 5kW.
N, Wrp, Comm: W 05.05, 05.30, 06.00, 06.30, 07.00, 12.00, 15.00 (Sat only), 15.30, 17.00 (exc. Sat), 18.30, 21.00, 23.00. Sun 07.00, 12.00, 18.30, 21.00, 23.00.
Second Prgr: W 05.10-22.10 (exc. Mon 08.00-14.30, Tues-Fri 09.00-14.30, Sat 08.00-15.05); Sun 09.00-21.30 (exc. 12.00-15.00).
Bremen II ch4 88.3MHz 100kW — Bremerhaven ch17 92.1MHz 5kW.
N: W 18.00, 20.00, 22.00 (exc. Sat); Sun 09.00, 22.00 — **L.L: English:** Tues 14.15, Wed 08.45, 14.00, Thurs 08.30, 14.00*, Fri 08.30* — **French:** Thurs 14.00*, Fri 08.30*.
* = fortnightly.
ANN: "Hier ist R. Bremen mit dem ersten bzw zweiten Prgr". **INT-SIG:** Mass in H minor by Bach.

V. by QSL-card. Rp. Re. in E, F, or G — **PUB:** Prgr. sched. free on request to Pressetelle, Radio Bremen.

DEUTSCHLANDFUNK

GEMEINNÜTZIGE ANSTALT DES ÖFFENTLICHEN RECHTS

	sendet auf		
Langwelle	151 kHz	/	1986,8 m
Mittelwelle	1538 kHz	/	195 m
	1268 kHz	/	236,5 m
	755 kHz	/	397 m
	548 kHz	/	547 m

ein deutsches Programm

rund um die Uhr mit 27 Nachrichtendiensten zur vollen Stunde und morgens halbstündlich

und ein Informationsprogramm in 13 Fremdsprachen für Europa

auf der Welle 1538 kHz:

Polnisch	von 20.00 — 20.30 Uhr
Tschechisch bzw. Slowakisch	von 20.30 — 21.00 Uhr
Serbo-kroatisch	von 21.00 — 21.30 Uhr
Rumänisch	von 21.30 — 22.00 Uhr
Ungarisch	von 22.00 — 22.30 Uhr
Französisch	von 22.30 — 23.10 Uhr

auf der Welle 1268 kHz:

Englisch	von 18.45 — 19.30 Uhr
Deutsch	von 19.30 — 20.00 Uhr
Niederländisch	von 20.00 — 20.30 Uhr
Dänisch	von 20.30 — 21.00 Uhr
Norwegisch	von 21.00 — 21.30 Uhr
Schwedisch	von 21.30 — 22.00 Uhr

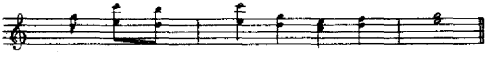
KÖLN-MARIENBURG
Lindenallee 7, Tel. 02 21/3 70 31

RIAS-BERLIN

ADDR: 1 Berlin 62, Kufsteiner Str. 69. **Cable:** Rias-Berlin. **Te:** 21301 — **L.P:** Dir: R. H. Lochner. Pol. Dir: R. Müllerburg. Dir. Prgr: H. Kundler. Dir. Tec: A. Pösniker. Dir. Adm: P. Naegele. Dir. Listeners Rel. and Press: H. Kirstaedter.
STATIONS: [1]) RIAS I, [2]) RIAS II.

	kHz	m	kW	h. of tr.
Berlin-Britz[2]	683	439	100	07.41a-15.40
Hof[1]	683	439	40d	03.25b-07.40c 15.41-00.35
Hof[1]	737	407	40	07.41a-15.40
Berlin-Britz[2]	854	351	100d	03.25b-07.40c 15.41-23.40d
Berlin-Britz[1]	989	303	300	03.25b-23.40d
Berlin-Britz[1]			200	23.40d-01.35
			100	01.35-03.15e
	6005	49.96	20	17.30-03.15e
München[1]	6005	49.96	100	03.25b-17.30

a) Sat, Sun 07.36 — b) Sun 04.00 — c) Sat, Sun 07.35 — d) Sat, Sun 23.35 — e) Sun 03.50.
G.C: Berlin 13.26 E/52.27 N — Hof 11.54 E/50.19 N — München 11.45 E/48.15 N.
FM: Berlin-Britz[1] 89.6MHz 30kW — [2]94.3MHz 50kW — Hof[2] 91.2 MHz 20kW.
D. PRGR: 24h — **Prgr.** separation into RIAS I and RIAS II: Sun 07.00-23.30, Mon-Fri 09.00-09.48, 14.00-14.45, 15.00-15.30 (Wed only), 16.00-23.30, Sat 11.50-23.30. All other times common prgr. (RIAS I + RIAS II).
N, Wrp: 00.30, 01.30, 02.30, 03.30, 04.30, 05.30, 06.30, 07.30, 08.30, 09.30, (RIAS I Mon-Fri), 10.30 (W), 11.30, 12.30 (W,) 13.30, 14.30 (RIAS I Mon-Fri), 15.30, 16.30 (W RIAS I), 17.30, 18.30, 20.30 (RIAS I), 20.30 (RIAS II Sat), 21.30 (Mon-Fri), 21.30 (Sun RIAS II), 22.30 (RIAS I), 22.30 (RIAS II Sat), 23.30 RIAS II: 14.05 (Sun), 15.41 (Sun)
ANN: "Hier ist RIAS-Berlin" — **INT-SIG:** From a Trio Sonata



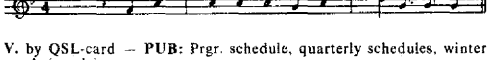
V. by QSL-card — **PUB:** Press service weekly RIAS education broadcast press service every six weeks — **FI:** By United States Information Agency.

SAARLÄNDISCHER RUNDFUNK

(Gemeinmützige anstalt des öffentlichen Rechts)
ADDR: 66 Saarbrücken, Postfach 1050. **Te:** 6021. **Cable:** Radio Saarbrücken. **Telex:** 4428977 — **L.P:** Intendant: Dr. Fr. Mai. *Verwaltungs Dir:* Dipl. Volkswirt, H. Fünfgeld. *Chefredakteur:* Karl Heinz Reintgen. Prgr. Dir: Dr. W. Zilius.
STATIONS: E = Europawelle; S = Studiowelle.

Heusweiler	1421 kHz	211.2m	400kW	E
Göttelborner Höhe I	ch3	88.0MHz	100kW	E
Moseltal I	ch5	88.6MHz	5kW	S
Göttelborner Höhe II	ch14	91.3MHz	100kW	S
Moseltal I	ch16	91.9MHz	5kW	E
Göttelborner Höhe III	ch28	95.5MHz	100kW	S
Moseltal III	ch30	96.1MHz	5kW	S

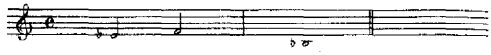
HOME SCE. in German:
Europawelle Saar: D 04.00-24.00(00.00-04.00 ARD Night Prgr)
N, Wrp: On the h exc. 20.00.
Studiowelle Saar (FM II + III): Mon-Fri 11.00-22.10, Sat 10.00-22.10, Sun 07.15-22.10. **N:** W 11.30, 16.30, 21.30, Sun 12.00, 18.50, 21.30.
ANN: "Hier ist die Europawelle Saar des Saarländischen Rundfunks auf 211m = 1421kHz und auf UKW, Kanal 3, 88.0MHz" oder "Hier ist die Studiowelle Saar des Saarländischen Rundfunks auf UKW II und III, Kanal 14, 91.3MHz und Kanal 28, 95.5MHz — **INT-SIG:**



V. by QSL-card — **PUB:** Prgr. schedule, quarterly schedules, winter prgr's (yearly).
AD: Europawelle Saar: 05.00-08.00, 09.00-11.30, 12.00-14.00, 16.00-17.45, 18.20-19.00, 22.00-23.00.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts)

AD: W 05.05-06.00, 06.15-07.00, 10.45-11.00, 11.03-11.30, 14.05-14.30 — **ADDR:** Masuren Allée 8-14, 1 Berlin 19. **Cable:** Sender Freies Berlin. **Te:** 30331.
L P: Vorsitzender d. Rundfunkrates: Dr. F. Suchan. Intendant: Franz Barsig. Dir. Prgr: E. Schütz. Dir. Tech: U. Blässer. Dir. Adm: H. Koch. Chief Editor: Dr. P. Pechel.
STATIONS: 1st Prgr:
566kHz 530.0m 100/20kW* — **FM:** 88.75MHz 10kW.
2nd and 3rd Prgr:
1484kHz 202.2m 5kW — **FM:** 92.4MHz 96.3MHz (both 10kW).
* = 00.00 until sunset 100kW (omnidirectional antenna), from sunset until 24.00 20kW (screened in direction of Ireland).
HOME SCE: 1st Prgr: 03.58 (Sun 04.58)-03.30 (Sat 04.30); (also on 1484kHz/92.4/96.3MHz if not used for 2nd and 3rd prgr.)
N, Wrp, SFB I: W: hourly exc. Sat 17.00, Mon-Fri 19.00, 20.00; Sun: 05.00, 06.00, 07.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 19.00, 21.00, 22.00, 23.00, 00.00, 01.00, 02.00, 03.00.
SFB II: N: W: hourly 04.00-14.00 & 23.00-03.00 (Sat also 15.00, 16.00, 17.00, 22.00); Sun 05.00, 06.00, 07.00, 09.00, 13.00, 23.00, 00.00, 01.00, 02.00, 03.00 — **Actualities:** SFB I: W 10.05, 11.30, 12.10, 17.30. SFB II: W 05.05, 06.13.
"Unser Kurzwellenbummel" (a prgr. for sw-friends compiled and produced by W. Uthoff): Every 4th Sat 22.05-22.20 (prgr II) & every 4th Sun 06.45-07.00 (repeat) (prgr I).
3rd Prgr. (NDR/SFB): 19.00-21.30. **N:** 19.00.
For Foreign Workers: D 17.00-20.00 on 98.2MHz (Turkish 17.00 Italian 17.45, Spanish 18.30, Greek 19.15).
ANN: "Hier ist SFB I", "Hier ist SFB II", "Hier ist das Dritte Programm des Norddeutschen Rundfunks und des Senders Freies Berlin"
INT-SIG: Cembalo:



V. by QSL-card — **PUB:** "Vorschau" (weekly).

SÜDDEUTSCHER RUNDFUNK

(Anstalt des öffentlichen Rechts).
ADDR: 7000 Stuttgart-1, P.O. Box 837. **Cable:** Rundfunk, Stuttgart. **Te:** 2070. **Telex:** 0723456.
Studios: Heidelberg-Mannheim: Heidelberg, Marstallstr. 6; Karlsruhe: Kriegsstr. 168 — **L.P:** Vorsitzender des Rundfunkrats: Dr. Valentin Gaa, Landrat, Mannheim. Vorsitzender des Verwaltungsrats: Dr. Alex Möller, Generaldir. (MdB), Karlsruhe. Intendant: Dr. Hans Bausch. Programmdir: Dr. Peter Kehm. Verwaltungsdir: Friedrich Müller. Technischer Dir: Dr. Helmut Rupp. Dir. TV: Horst Jaedicke.
HOME SCE: Mw Prgr (rel by sw and FM): Sun 04.55-03.30; Mon 03.51-03.30; Tues-Fri: 03.56-03.30; Sat 03.56-04.30 (No. breaks in tr's).

Stations:	kHz	m	kW	Stations:	kHz	m	kW
Mühlacker	575	522	300	Bad Mergenth.	1412	212	2
Heidelberg	998	301	10	Wertheim	1484	202	0.2
Buchen Walldürn	998	301	0.2	Heidenheim	1484	202	0.2
Ulm-Jungingen	1169	257	5	Bopfingen	1484	202	0.2
Heilbronn-Obereisesh.	1169	257	10	Adelsheim	1484	202	0.2

Short Wave: Mühlacker: 6030kHz 49.75m 20kW.
G.C: 08.51E/48.57N: 03.55 (Sun 04.55)-03.30 (Sat/Sun 24.00).

FM:	ch	MHz	kW		ch	MHz	kW
Ulm I	25	94.5	1	Geislingen I	28	95.5	0.5
Stuttgart I	26	94.7	100	Heidelberg I	36	97.8	100
Aalen I	27	95.1	50	Waldenburg I	39	98.8	100

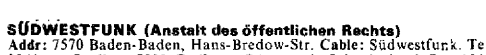
N: 04.30, 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 11.30, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 21.00, 23.00.
FM: 2nd Prgr: Sun 07.05-23.10; Mon, Tues, Wed, Fri 04.35-23.15; Thurs 03.45-23.15; Sat 04.35-01.00. No break in tr's.

	ch	MHz	kW		ch	MHz	kW
Stuttgart II	3	88.0	0.5	Wertheim II	16	91.8	0.1
Heidelberg II	6	88.8	100	Buchen	16	91.9	0.1
Ulm II	7	89.2	1	Geislingen II	20	93.0	0.5
Mühlacker	8	89.5	4.5	B. Mergenth II	21	93.2	0.5
Stuttgart II	10	90.1	100	Waldenburg II	23	93.8	100
Aalen II	14	91.1	50				

N: 05.30, 06.30, 07.30, 12.00, 13.00, 16.30, 17.30, 18.30, 21.30, 23.00.

FM (3rd Prgr): For Foreign Workers and Stereo:	ch	MHz	kW		ch	MHz	kW
Stuttgart III	17	92.2	100	Aalen III	37	98.1	50
Waldenburg III	32	96.5	100	Heidelberg III	43	99.9	100
Ulm III	35	97.4	1				

17.00 Turkish, 17.45 Italian, 18.30 Spanish, 19.15 Greek.
ANN: "Hier ist der Süddeutsche Rundfunk" — **INT-SIG:** The first notes of a Swabian folksong: "Jetzt gang i ans Brünnele".



V. by QSL-card.

SÜDWESTFUNK (Anstalt des öffentlichen Rechts)

Addr: 7570 Baden-Baden, Hans-Bredow-Str. **Cable:** Südwestfunk. **Te:** 2761 — **Studios:** 7800 **Freiburg** Günterstal, Schauinsland Str. 136; 6500 **Mainz:** Deutschhausplatz 8; 7400 **Tübingen:** Matthias-Koch-Weg 7 – "Zweigstellen": 6750 **Kaiserslautern:** Fliegerstr. 36; 5400 **Koblenz:** Janurius-Zick-Str. 8; 7750 **Konstanz:** Wollmatingerstr. 39; 5500 **Trier:** Christophstr 24 — **L.P:** Vorsitzender des Rundfunkrates: J. Saxler Daun. Vorsitzender des Verwaltungsrates: A. Dichtel, Freiburg i Br. Intendant: H. Hammerschmidt. Programmdir. u. stellvertretender Intendant: G. Gaus. Tech. Dir: Dr. W. Knöpfel. Verwaltungsdir: A. Manke. Justitiar: Dr. E. Wagner. Offentlichkeitsarbeit: H. Scharfenberg. Leiter Studio Freiburg: E. Brugger. Dir. Studio Mainz: T. W. Zwermann. Leiter Studio Tübingen: A. G. Richter. Head of Prgr. Exchange: H. Schliewen.
HOME SCE: 1st Prgr: Sun 05.50-24.00, W 03.55-23.10 (Fri 24.00, Sat 01.00) — **"Musik bis zum frühen Morgen"** on 1016kHz only (Rheinsender): Sun 00.00-03.50; Tues, Thurs 23.10-03.50; Sat 01.00-05.00.

M. Waves:	kHz	m	kW	M. Waves:	kHz	m	kW
Bodensee-sender	665	451	300	Koblenz	827	363	0.5
Baden-Baden	827	363	1.5	Trier	827	363	3
Freiburg	827	363	40	Rheinsender	1016	295	300
Kaiserslautern	827	363	3				

Short Wave: Rohrdorf (G.C: 09.07E/48.01N): 7265kHz 41.25m 1.5kW.

FM (with stereoprgr's)

	ch	MHz	kW		ch	MHz	kW
Baden-Baden	13	90.9	0.5	Koblenz	30	96.05	10
Blauen	7	89.2	8.4	Linz	18	92.4	18
Donnersberg	40	99.1	60	Mainz	15	91.4	0.1
Eggberg	33	97.0	0.6	Marienberg	9	89.8	25
Eifel	14	91.1	8	Potzberg	13	90.8	20
Feldberg i Schw.	9	89.8	1	Raichberg	4	88.3	12
Haardtkopf	36	97.7	25	Waldburg	14	91.2	18
Hochrheinsend.	3	88.0	0.07	Wannenberg	7	89.0	1
Hohe Möhr I	7	89.1	0.5	Weinbiet	30	92.4	25
Hornisgrinde	22	93.5	60	Wittboh	18	92.4	37.5

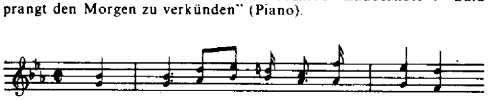
N, Wrp: 04.00(W), 05.30(W), 06.00(Sun), 06.30(W), 07.30(Sun), 08.30(W), 11.00(Sat/Sun), 19.00(W), 21.30, 23.00. **"Pressestimmen":** Mon-Fri 11.00.
2nd Prgr: Sun 05.30-24.00; W 03.55-23.10(Fri 24.00, Sat 01.00).
FM (with stereoprgr's)

	ch	MHz	kW		ch	MHz	kW
Baden-Baden	40	98.9	0.5	Koblenz	23	94.0	10
Blauen	19	92.6	8.4	Linz	35	97.4	18
Donnersberg	17	92.0	60	Marienberg	28	95.4	25
Eggberg	38	98.5	0.6	Potzberg	23	93.9	20
Feldberg i Schw.	36	97.9	1	Raichberg	16	91.8	12
Haardtkopf	20	93.0	25	Waldburg	26	94.9	18
Hochrheinsender	12	91.1	0.07	Wannenberg	19	92.8	1
Hohe Möhr II	19	92.7	0.5	Wittoh	11	90.4	37.5
Hornisgrinde	31	96.2	60				

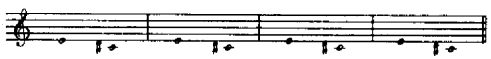
N, Wrp: 04.00(W), 05.00(W), 06.00, 07.00, 09.00(W), 12.00, 16.00(W), 21.00, 23.00 — **"Tribune der Zeit":** 18.30.
Prgr. III: Sun 10.50-21.00, W 16.40-21.00(Mon, Tues, Fri, Sat also 06.57-07.30)

FM	ch	MHz	kW		ch	MHz	kW
Donnersberg	10	89.9	30	Koblenz	15	91.6	10
Feldberg i Schw.	23	93.8	1	Raichberg	24	94.3	4
Hohe Möhr III	33	96.8	0.5	Waldburg	39	98.7	18
Hornisgrinde	38	98.4	9				

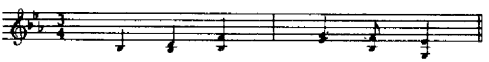
L.L: English: Mon, Tues, Fri, Sat 07.10-07.30. **For Foreign Workers:** 16.55-21.00; 17.00 Turkish, 17.45 Italian, 18.30 Spanish, 19.15 Greek, 20.00 Music.
ANN: "Hier ist der Südwestfunk. Im. 1. Programm hören Sie . . ." Im 2. Programm hören Sie . . .".
INT-SIG: Baden-Baden: Motif from Mozart's "Zauberflöte": "Bald prangt den Morgen zu verkünden" (Piano).



Freiburg: Glockenmotiv des Freiburger Münsters: "Petrus und Maria"



Mainz: "Dort wo der Rhein mit seinen Wellen"
Tübingen: "Droben im Oberland" (2 horns).



V. by QSL-card and letter. Rp.

WESTDEUTSCHER RUNDFUNK (WDR)

(Anstalt des öffentlichen Rechts).
ADDR: Wallrafplatz 5, Köln. **Tel:** 2201. **Cable:** WDR.
Studios: 53 Bonn, Dahlmannstrasse 14; 4 Düsseldorf, Palmenstrasse 16; 46 Dortmund, Westenhellweg 86-88; 44 Münster, Ludgeriplatz; 48 Bielefeld, Lessingstrasse 3; 43 Essen, Lindenallee 56.
L.P: Intendant: Klaus von Bismarck. Dir. Radio: Dr. Fritz Brühl. Dir. Tec: W. Werner.
HOME SCE: First Prgr. (common WDR & NDR prgr): W 04.55-09.40, 10.00-00.15; Sun 05.55-00.15 — **Night Prgr.** (on 1586kHz, 88.8 & 90.6MHz only): 00.10-04.50.
Medium Waves:

	kHz	m	kW		kHz	m	kW
Aachen/Stolb	701	428	5	Kleve	971	309	3
Herford	701	428	2	Münster	1502	199	0.8
Siegen	701	428	2	Langenberg	1586	189	800
Bonn	971	309	5				

FM. Common WDR and NDR (First prgr):

	ch	MHz	kW		ch	MHz	kW
Monschau	2	87.7	0.04	Nordhelle	11	90.3	15
Aachen-Stolb	3	88.0	5	Teutob. Wald	12	90.6	100
Köln	3	87.8	0.5	Münster	17	92.0	6
Bonn	4	88.3	0.5	Siegen	34	97.1	0.5
Langenberg	6	88.8	100	Kleve	42	99.7	0.25
Wittgenstein	6	88.7	15				

N, Wrp: 05.00(W), 06.00, 07.00, 07.05 (Sun, Church N), 08.00, 09.00 (W), 10.00, 11.00(W), 12.00, 13.00(W), 14.00, 15.00(W), 16.00, 17.00 (W), 18.00, 21.00, 22.00, 23.00 — **Comm:** Mon-Fri 12.10, 18.10, 21.05 — **Wrp:** Repeats of short version within music prgr's at 05.30, 06.30, 07.30.

Second Prgr: 04.45-23.00(Sat 24.00), Sun 05.55-23.00.

	ch	MHz	kW		ch	MHz	kW
Köln	16	91.8	0.5	Eifel	22	93.6	6
Wittgenstein	18	92.3	15	Nordhelle	22	93.5	15
Bonn	19	92.8	0.5	Aachen Stolb	23	93.9	5
Siegen	19	92.6	0.5	Monschau	24	94.2	0.04
Kleve	21	93.3	0.25	Münster	24	94.1	6
Teutob. Wald	21	93.2	100	Langenberg	27	95.1	100

N, Wrp: W 05.30, 06.30, 07.30, 09.30, 11.30, 14.30, 16.30 (no Wrp), 18.30, 21.30, 22.30. Sun 07.30, 11.45, 18.30, 21.30.
3rd Prgr: W 09.20-10.30 (Sat 10.45), 13.55 (Sat 13.25)-21.30 (approx); Sun 13.25-21.30 (approx).

	ch	MHz	kW		ch	MHz	kW
Siegen	4	88.2	0.5	Teutob. Wald	33	97.0	100
Münster	9	89.7	18	Kleve	34	97.3	0.25
Bonn	12	95.7	0.5	Nordhelle	37	98.1	15
Köln	29	95.7	0.5	Monschau	37	98.2	0.04
Wittgenstein	29	95.8	15	Langenberg	41	99.2	100
Aachen/Stolberg	30	95.9	5				

N: D 18.45 — **Prgr. for Foreign Workers:** W 16.55-21.00; Sun 10.55-14.00, 16.55-21.00
Aachen-Stolberg ch52 102.5MHz 0.5kW — Langenberg ch45 100.4 MHz 50kW — Teutoburger Wald ch4 88.1MHz 3kW.

ANN: First-Prgr: "Westdeutscher Rundfunk Erstes Programm". Second Prgr: "Westdeutscher Rundfunk, Zweites Programm". Third Prgr: "Westdeutscher Rundfunk, Drittes Programm".
INT-SIG: M. W. Prgr: Motif from "In allen guten Stunden" (L. van Beethoven). Electronic instrument.

V. by QSL-card or letter. Re. to Technische Direktion.

ALLIED STATIONS

AMERICAN FORCES NETWORK (United States Army)

ADDR: Headquarters, AFN Europe, 6000 Frankfurt/Main, Bertramstrasse 6 or APO New York, NY 09757, N.Y. U.S.A. **Tel:** Frankfurt Mil 7901 — **L.P:** Commanding Officer: LTC A. A. Jones. Prgr. Dir: R. J. Harlan. Tech. Dir: F. C. Mortensen.

STATIONS:	kHz	m	kW		kHz	m	kW
Nürnberg*	611	491	10	Bamberg	1304	260	0.25
Grafenwöhr	611	491	10	Berchtesgaden	1304	230	0.25
Kaiserslaut*	611	491	10	Heidelberg	1304	230	1
Frankfurt**	872	344	150	Regensburg	1304	230	0.25
Berlin*	935	321	10	Fulda	1304	230	0.25
Ansbach	1034	290	0.25	Wertheim	1304	230	0.25
Bad Kissingen	1034	290	0.25	Augsburg	1394	215	1
Karlsruhe	1034	290	1	Bitburg	1394	215	0.25
Munich*	1106	271	50	Crailsheim	1394	215	0.25
Stuttgart*	1142	263	10	Hof	1394	215	0.25
Ulm	1142	263	1	Garmisch	1502	199	0.25
Goeppingen	1142	263	0.25	Giessen	1502	199	0.25
Bremerhaven*	1142	263	5	Hohenfels	1502	199	0.25
Hersfield	1142	263	0.25	Rothwesten	1502	199	0.25
Schweinfurt	1142	263	0.25	Wildflecken	1502	199	0.25
Würzburg	1142	263	0.25				

FM: Berlin 87.85MHz 1.5kW, Frankfurt 98.7MHz 60kW, Stuttgart 102.4MHz 100kW, Augsburg 101.7MHz 15kW, Heidelberg 100.4 MHz 0.375kW, Illesheim 101.0MHz 0.375kW, Pirmasens 101.7MHz 0.375kW, Maastricht, Holland, 93.4MHz 75W, Brunssum, Holland 89.15MHz 75W, Soesterberg Holland 93.1MHz, 20W.
*Studio Installations — ** Key station.
D.Prgr: 24 h — **N:** Every h on the h (5 min) + major newscasts (30 min) at 06.00, 17.00, 21.00 — **Hymns from Home:** Mon-Fri 06.05 — **Request Shows:** 06.10, 06.30, 07.30, 11.30, 12.15, 16.05, 17.05 — **Local N:** 17.25 — **Rel:** Sun 09.30 (Catholic), 09.05 (Protestant), **ANN:** "This is AFN, The American Forces Network, Europe" announced at least every h — **INT-SIG:** Every h on the h. AFN announces the time and the sixth and final pip is exactly on the h as announced — **V.** by QSL-card. Recordings not desired and will not be returned — **PUB:** Prgr. sched. (weekly) not available to individuals. The American Forces Network operates solely to provide American Forces in Europe with information and entertainment.

BRITISH FORCES BROADC.SCE.COLOGNE

is operated by Ministry of Defence to provide a sce. of inf. entertainment as well as a link with home for Il.M. Forces in Germany. It is non-comm, does not accept adv. — **ADDR:** BFBS Cologne, 5 Köln-Marienburg, Parkstr. 61. **Tel:** 381757 Cologne Civil — **L.P:** St. Contr: J. K. Parsons. Eng.in-Charge: J. W. Bull. SPO: J. V. Russell.

FM-st's	MHz	kW		MHz	kW		MHz	kW
Langenberg	96.5	50	Bonn	99.8	2	Drachen-		
Nordhelle	96.5	15	Herford	95.4	6	berg	93.0	80
Verden	97.6	50	Berlin	98.75	1			

English: 05.30 (Sun 07.00)-22.30 (Sat 24.00).
N. (From BBC): 07.00, 08.00, 12.00, 17.00 (Sat/Sun only), 21.00. N. summaries on the half h hourly — **ANN:** "This is the British Forces Broadc. Sce. Germany" or "You are tuned to FBS in Germany" — **V.** by letter Rp. — **PUB:** BFBS bulletin weekly.

RADIO CAE (Canadian Army Europe)

ADDR: CFPO 5050, 476 Werl — **L.P:** St. Mgr: B. McMillan. Dir. Prgr: T. Wood. Dir. Tec: Sgt. R. Suchorab — **STATION:** 87.8MHz 0.25kW

Germany

D.PRGR'S in English and French: Mon-Fri 05.30-23.00; Sat 09.00-24.00; Sun 09.00-23.00 — **N.** (relay CBC): 07.00, 11.00, 12.00, 14.00, 16.40, 17.50, 21.30 — **L.L.** (German Course): Mon-Fri 09.50 — **ANN:** "Broadc. from Fort Victoria, on a freq. of 87.8MHz, this is Canadian Forces Radio Station, CAE" — **V.** by letter.

RADIO FORCES FRANCAISES DE BERLIN (FFB)

Relay st. for entertainment of French Forces in Berlin.
ADDR: Kurt-Schumacher-Damm, Quarter Napoléon, Berlin-Reinickendorf — **FM:** 93.6Mc 3kW: Continuously exc. from 08.00-09.00 (Mon) and Thurs 23.00-Fri 06.00 — **Rel:** RTF Programmes. **N:** 07.00-12.00.

RADIO FREE EUROPE (Private, non-comm.)

ADDR: R. Free Europe, Division of Free Europe, Inc. 2 Park Avenue, New York 16, N.Y, U.S.A. **Cable:** Natfecom, N.Y. **Te:** LExington 2-8900 — R. Free Europe Hqs, 1 Englischer Garten, München 22, Germany. **Cable:** Raduropa. **Te:** 229921 — Raret (Portugal relay base), Sociedade Anonima de R. Retransmissão, Av. Padre Manuel da Nobrega 8-B, Lisbon. **Cable:** Raretsa. **Te:** 721131 — **L.P:** Free Europe, Inc. (New York): Pres: William P. Durkee. RFE Hqs. (Munich): Dir: R. E. Walter. Dir. of Eng: P. W. Esten New York Office: Dir: Ch. B. Kaufmann. Dir. Eng: W. H. Moffat. Portugal Office: Man. Dir: H. N. Black.
STATIONS: Medium Wave:
Holzkirchen 719kHz 417.2m 150kW.
Short Wave: 9 sw-tr's in Biblis, Germany (10/20/50kW), 18 sw-tr's near Lisbon, Portugal (10/25/50/100/250/500kW). (**G.C:** Biblis: 08.30E/49.41N; Holzkirchen: 11.44E/47.52N; Lisbon: 08.40W/39.30N.)

kHz	m	kHz	m	kHz	m	kHz	m
3960	75.75	7190	41.72	11725	25.59	15355	19.54
3970	75.57	7205	41.64	11805	25.41	15365	19.53
3995	75.09	7235	41.47	11815	25.39	17725	16.93
5970	50.25	7245	41.41	11825	25.37	17735	16.92
5985	50.12	7285	41.18	11855	25.31	17770	16.88
6095	49.22	9505	31.56	11885	25.31	17805	16.85
6105	49.14	9565	31.36	11895	25.22	17835	16.82
6115	49.06	9595	31.27	11905	25.20	17865	16.80
6125	48.98	9605	31.23	15115	19.85	21600	13.89
6135	48.90	9655	31.07	15145	19.81	21605	13.88
6185	48.50	9695	30.95	15170	19.78	21620	13.87
7105	42.22	9705	30.91	15185	19.76	21665	13.84
7115	42.16	9715	30.88	15195	19.74	21680	13.84
7145	41.99	9725	30.85	15215	19.71	21720	13.81
7165	41.87	11705	25.63	15255	19.66	21745	13.80

Most RFE freq's are registered for use both in Germany and in Portugal and the selection of tr. location is a function of propagation conditions throughout the year.
D.PRGR: H = Holzkirchen; B = Biblis; L = Lisbon.
General bearings for the various services are as follows:

Target Area	Transmitter St's. B	H	L	Target Area	Transmitter St's B	H	L
Poland	63°	50°	47°	Hungary	106°	110°	59°
Czechoslovakia	98°	66°	52°	Rumania	106°	110°	63°
				Bulgaria	108°	118°	69°

Bulgarian kHz/Station/kW
03.57-06.00 9695(H-10), 7250(H-10), 11725(L-50), 15115(L-250)
15.57-21.30 11825(H-10), 21680(L-50), 9695(H-10), 15115(L-250) 17725(L-50).

Czech
03.57-05.10(W) 5970(B-10)
03.57-05.30(W) 9725(L-100)
*03.57-08.10 11885(L-100)
*05.30-23.00 7165(B-20), 9725(B-10), 15355(L-250), 17835(L-100)
*03.57-23.00 15255(L-10)
06.10-15.45 6105(H-10), 15115(L-250), 17725(L-50), 21665(L-50)
08.10-15.00 9695(H-10)
08.10-14.45 11885(B-50), 21720(L-100)
14.00-17.00 719(H-150)
14.45-20.00 11885(L-50), 21720(L-50)
19.00-23.00 6105(H-10), 11885(L-100)**, 719(H-150)***
* = Sun 05.57; ** = from 20.00; *** = 22.20-23.05 only.

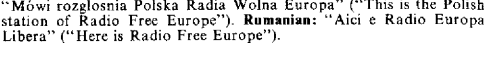
Hungarian
*03.54-23.05 7115(B-10), 5985(B-10) a, 9595(L-100) b
*03.54-06.45 11815(L-50)
06.00-23.05 5985(H-10), 9595(B-10) (from 06.15)
*06.23-23.05 15170(L-250)
06.15-23.05 11815(B-50) (from 20.10 (L-50)
06.53-23.05 17770(L-100)
* = Sun 05.54; a) to 06.00; b) to 06.15.

Polish
03.55-08.00(W) 6105(H-10)
°03.55-08.10 11855(L-10) (to 05.35), 11895(L-100)
°03.55-23.10 7190(B-10), 9705(B-10), 15145(L-100), 17805(L-250)
05.50-09.35 17865(L-10)
08.10-19.35 5970(H-10)
08.10-14.45 11895(L-50), 15215(L-100), 17735(L-100), 21745 (L-100)
14.45-23.10 17865(L-10), 719(H-150) (19.00-22.20 only)
° = Sun 05.55.

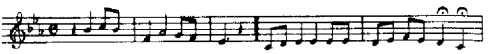
Rumanian
04.00-08.00 9655(B-50), 11825(B-50), 15215(L-100), 17735 (L-100/50)
04.00-06.00 7295(B-50)
15.00-23.00 9695(B-50), 11895(B-50), 11895(B-50), 15125(L-100), 17735(L-100)
19.10-23.00 6115(B-50), 7295(H-10) (from 21.30)

N. every h on the h (for all Sce's).
Frequencies change throughout the year as propagation conditions vary.
ANN: Sign on and sign off: **Bulgarian:** "Took E Radio Svobodna Evropa" ("This is Radio Free Europe"). **Czechoslovak:** "Hlási se vám ceskoslovenská stanice rozhlasu Svobodná Evropa" ("This is the Czechoslovak station of Radio Free Europe calling"). **Hungarian:** "Itt a Szabad Európa Radió" ("This is Radio Free Europe"). **Polish:** "Mówi rozglosnia Polska Radia Wolna Europa" ("This is the Polish station of Radio Free Europe"). **Rumanian:** "Aici e Radio Europa Libera" ("Here is Radio Free Europe").

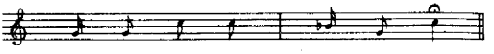
INT-SIG: Bulgarian: Part of Bulgarian National Anthem (Celeste):



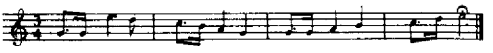
Czech/Slovak: Czech and Slovak National Anthem (Celeste):



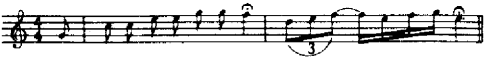
Hungarian: Old Hungarian folksong:



Polish: Polish patriotic song: "Hail Glorious Dawn of May". (Brass instruments):



Rumanian: Folk Motif (Orch & Flute):



V. by QSL-card. Recordings accepted.
FI: By American contribution through the Radio Free Europe Fund.

RADIO LIBERTY (Private, non-comm.)

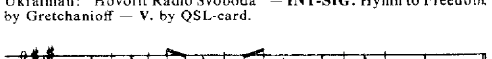
ADDR: Arabellastrasse 18,8 Munich 81. **Cable:** RadLibComm. **Te:** 44631 — **L.P:** Exec. Dir. Headquarters, Munich: Walter K. Scott. Pres. Radio Liberty Committee, Inc, New York: Howland H. Sargeant
STATIONS: Lampertheim (Germany): 50/20kW (8 sw-tr's); Playa de Pals (Spain): 500/250/100kW (5 sw-tr's); Pa-Li (Taiwan): 50kW (4 sw-tr's).
G.C: Lampertheim: 98.33E/49.30N — Playa de Pals: 03.10E/42.00N — Pa-Li: 121.27E/25.05N.

kHz	m	kHz	m	kHz	m	kHz	m
3990	75.19	9520	31.51	11970	25.06	17750	16.90
5955	50.39	9555	31.40	15125	19.83	17760	16.89
6095	49.22	9610	31.22	15130	19.83	17780	16.87
6170	48.62	9660	31.06	15225	19.70	17855	16.80
7145	41.99	9680	30.99	15290	19.62	17865	16.79
7155	41.92	9750	30.77	15340	19.56	17875	16.78
7180	41.78	11725	25.59	15370	19.52	17895	16.76
7220	41.55	11770	25.49	15380	19.50		
7285	41.18	11870	25.27	15445	19.43		
7295	41.12	11935	25.14	17720	16.93		

All of R. Liberty's tr's with the exception of those to East Germany are directed to the USSR. Bearings are as follows.

Target Area	Lampertheim	Playa de Pals	Taiwan
USSR	53°	41°	22°
	77°	52°	338.5°
	93°	63°	

D.PRGR: 00.00-24.00.
Target area: E. Germany 75, 49, 31, 25m.b. — No. + So. Russia, Belorussia, Ukraine 49, 41, 31, 25, 19, 16m.b. — Tatar ASSR, Bashkir ASSR, Caucasus, Soviet Central Asia 49, 41, 31, 25, 19m.b — Soviet Far East 16, 19, 25m.b — **N:** Every h.
ANN: Azerbaijani: "Danyshyr Azadlyk Radiosu". Armenian: "Chosume 'Azatutiun' Radiokayane". Belorussian: "Gavaryts Radyio Svoboda". Georgian: "Laparakobs Radiosadrugi Thavisuphleba". No. Caucasian: "Govorit Radiostantsia Svoboda". Russian: "Govorit Radiostantsia Svoboda". Tatar-Bashkir: "Monda Azatlyk Radiostansyese Suyili". Turkestani: "Azatlyk Radiosydan Gapiramiz". Ukrainian: "Hovorit Radio Svoboda" — **INT-SIG:** Hymn to Freedom by Gretchanioff — **V.** by QSL-card.



R. Liberty speaks to the people of the U.S.S.R. as free voice of their fellow countrymen abroad. R. Liberty is supported by the R. Liberty Committee, Inc. which derives its funds from private persons and organizations in the U.S.A. — **F.PL:** 1000kW sw-tr under construction at Playa de Pals.

VOICE OF AMERICA RADIO STATION IN GERMANY
ADDR: Voice of America, Washington, D.C. 20547, USA.
Medium Wave: Munich A 1196kHz 251m 300kW: 03.00-07.30, 16.00-23.45(Sun 24.00) **Short Wave:** Munich (G.C: 11.45E/48.15N) 100 kW: 03.00-07.45, 12.00-23.45 (Sun 24.00)

kHz	m	kHz	m	kHz	m	kHz	m
3980	75.38	9540	31.45	17705	16.94	21560	13.91
6040	49.67	9760	30.74	17830	16.83		

Medium Wave: 03.00-04.00 Russian, 04.00-04.15 Slovene, 04.15-04.30 Hungarian, 04.30-04.45 Czech, 04.45-05.00 Polish, 05.00-07.30 **English**, 16.00-17.30 **English**, 17.30-18.30 Czech, 18.30-20.00 Polish, 20.00-21.30 Hungarian, 21.30-22.00 Czech, 22.00-22.30 French, 22.30-23.45 (Sun 24.00) **English.**
Short Wave: See USA.

ANN: "This is the Voice of America" is announced in the language of the program in which it is given. Station identification is in English: "You are listening to the Voice of America in Washington as relayed through transmitters in Munich" — **INT-SIG:** Theme of "Columbia, the Gem of the Ocean." **V.** by QSL-card.

GERMANY

GERMAN DEMOCRATIC REPUBLIC

L.T: GMT + 1 h — **Pr. L:** German.

STAATLICHES RUNDFUNKKOMITTEE (Gov.)
ADDR: 116 Berlin, Nalepastrasse 18-50. **Te:** 632831. **Cable:** Funkkomittee — **L.P:** Acting Gen. Dir: R. Grimmer. Dir. Adm: H. Ebel. Dir. Tech: Dipl. Ing: A. Schulz. Dir. Foreign Rel: M. Müller. Intendant: K. Ehrich (Deutschlandsender). H. Classen (Berliner Rundfunk), R. Schmidt (R. DDR). C. Kirschnck (R. Berlin International).

HOME SERVICE

DEUTSCHLANDSENDER: D. Prgr: D 03.00-02.45.

Location:	kHz	m	kW
Berlin (Königswusterhausen)	185	1621.6	750
Suhl (Wachenbrunn)	692	433.8	250
Schwerin (Wöbbelin)	728	412.1	250
Burg	782	383.6	250
Berlin	6115	49.06	20
Berlin	7185	41.75	5

FM:	ch	MHz	kW	FM:	ch	MHz	kW
Sonneberg	24	94.2	1	Karl Marx-Stadt	34	97.05	1
Schwerin	27	95.25	10	Inselsberg	34	97.15	10
Leipzig	32	96.6	10	Brocken	35	97.4	10
Marlow	32	96.65		Berlin-Köpenick	35	97.65	3
Dequede	33	96.9	1				

Sat 03.00-03.00; Sun 03.00-23.20 (all freq's); Mon-Fri 03.00-23.15 (exc. 08.00-11.00) on 728/782/6115/7185kHz + 97.65MHz, exc. Tues-Fri 728/6115/7185kHz + 97.65kHz. Mon-Fri 23.15-03.30; Sun 23.20-03.00 night prgr on 728/782MHz + 97.65MHz.
N. Wrp: 00.00, 02.00, 03.05 (W). 03,30 (W), 04.00 (W), 04.30 (W), 05.00 (W), 05.30 (W), 06.00 (W), 07.00 09.00 (W), 11.00, 12.00 (W), 14.00, 16.00, 17.00, 18.00 (W), 20.30 (W). 22.00.

Comm: 18.10 (W), 17.00 (Sun); repeat: 23.10—**Actualities:** 09.10, 10.00, 14.05, 16.00, 17.00, 18.15, 20.40—**Press Review:** 07.05, 12.10—**Folklore:** Sun 07.20; Mon, Wed 10.30; Tues 20.00; Thurs 15.30; Fri 10.25—**Maritime Wrp** (on 185kc only): 02.45, 04.05 (all freq's), 09.50, 16.50, 23.20.

RADIO DDR I: 24 h.

Stations:	kHz	m	kW	Stations:	kHz	m	kW
Schwerin	529	567.1	20	Berlin	881	340.5	100
Greifswald	557	538.6	1	Dresden	1043	287.6	250
Leipzig	575	521.7	100	Suhl	1052	285.1	5
Erfurt	629	476.9	20	Seelow	1546	194	5
Cottbus	746	402.1	20	Bernburg	1570	191.1	20

FM:	ch	MHz	FM:	ch	MHz
Inselsberg	3	87.85	Schwerin	7	89.2
Marlow	4	88.25	Dequede	8	89.4
Leipzig	5	88.45	Berlin	29	95.8
Brocken	6	88.95	Helpterberg	30	95.95

D. PRGR: 03.00-23.10 on all freq's: 23.00-03.00 on 557, 1043kHz and Mon, Wed, Fri also on 575kHz.
N & Wrp: W 04.00-22.00 every h on the h; D 00.30, 01.30; W 03.05, 03.30, 05.30, 06.30; Sun 03.05, 04.00, 05.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 20.00, 21.00.
Folklore: Tues, Thurs, Sat 07.05; Sat also 17.05—**Actualities and Comm:** (also on R.DDR II): 09.10 (W), 16.00 (W), 18.10 (D), 21.10 (W)—**Rlg. See:** Sun 06.30—
RADIO DDR II: D 09.00-23.10.

Stations:	ch	MHz	kW	Stations:	ch	MHz	kW
Reinsberg	12	90.5	10	Leipzig	23	93.85	10
Marlow	14	91.05	10	Brocken	25	94.6	1
Dresden	17	92.25		Dequede	25	94.6	1
Inselberg	18	92.55	1	Berlin (Köpenick)	27	95.05	
Schwerin	19	92.75	10	Görlitz	28	95.4	
Karl Marx-Stadt	19	92.85	10	Cottbus	39	98.6	

D. PRGR: N, Wrp: 09.00 (W), 11.00, 12.00 (Mon-Fri), 13.00 (W), 14.00 (Sun), 15.00 (Sat), 16.30 (Sun), 17.00 (W), 18.00 (Sun), 21.00—**Actualities:** 17.10 (W), 18.10 (Sun), 21.10 (W). **Rel. R. DDR I:** Mon, Wed 22.10 (Sun, Thurs 23.00)—23.10; Tues, Fri, Sat 22.00-23.10.

BERLINER RUNDFUNK: D. Prgr: 03.00-02.00.

Stations:	kHz	m	kW	Stations:	kHz	m	kW
Karl Marx-Stadt	602	498	5	Reichenbach	917	328.9	3.5
Berlin-Köpenick	611	491	250	Plauen	1079	278.1	2
Potsdam	656	457.3	20				

FM Stations:	ch	MHz	FM Stations:	ch	MHz
Karl Marx-Stadt	10	89.8	Brocken	15	91.55
Dresden	10	90.1	Sonneberg	16	91.7
Inselsberg	11	90.2	Marlow	22	93.5
Leipzig	11	90.4	Schwerin	38	98.55
Berlin	15	91.4	Dequede	40	98.9

03.00-23.05 on all freq's; 23.10-02.45 on 611kHz only; Mon 07.30-11.00 on 656kHz/91.4MHz; Wed 07.30-11.00 not on 656kHz — **N, Wrp:** W 00.30, 01.30, 03.05, 03.30, 04.00, 04.30, 05.00, 05.30, 06.00, 06.30, 07.30, 09.30, 11.30, 14.00, 15.30, 18.30, 20.30, 22.30; Sun 00.30, 01.30, 04.30, 05.30, 06.30, 07.30, 09.30, 12.30, 14.00, 18.30, 20.30, 22.30—**Comm:** 12.00 (Sun), 18.00 (W)—**Actualities:** 17.00, 20.40 (W); 17.00 (Sun) **Press-Review:** 10.50 (W).

BERLINER WELLE.
Station: Berlin-Köpenick 1358kHz 220.9m 250kW.
FM: ch42 99.7MHz 10kW.
D. Prgr: Sun 03.00-23.10; 23.10-02.45 on 99.7MHz only; Mon-Fri 03.00-11.00, 14.30-23.10; Mon 23.10-02.45 on 611kHz only; Tues-Fri 23.10-02.45 on 99.7MHz only; Sat 03.00-23.05, 23.05-02.45 on 99.7MHz only; Mon 07.05-11.00 on 99.7MHz; Sun 03.00-06.00, 12.30-14.45 and Mon-Sat 03.00-04.00 as Berliner Rundfunk.
N, Wrp: W 00.30, 01.30, 03.05, 03.30, 04.00 04.30, 05.00, 05.30, 06.00, 06.30, 07.00, 08.00, 14.30 (Sat 14.00), 15.30 (not Sat), 16.00, 17.00, 18.00, 20.00, 21.00 (Sat only), 22.00; Sun 00.30, 04.30, 05.30, 06.30, 07.30, 12.30, 14.00, 16.00, 18.00, 20.00, 21.00, 22.00—**Comm:** 18.10 (Sun), 18.12 (W)—**Actualities:** 16.05 (Sun) 17.00 (W).

RADIO BERLIN INTERNATIONAL

Stations: Nauen, Königswusterhausen — *) 50/100kW.

kHz	m	kW	kHz	m	kW	kHz	m	kW
1430	210.0	250	9650	31.15	100	15450	19.42	*
1511	198.5	250	9730	30.83	50	17830	16.83	100
6080	49.34	*	11745	25.54	100	17880	16.78	100
6115	49.06	20/5	11875	25.26	100	21450	13.99	100
7185	41.75	5	11900	25.21	100	21465	13.98	100
7300	41.10	5	11920	25.17	100	21475	13.97	100
9500	31.58	100	11975	25.05	100	21495	13.96	100
9570	31.35	100	15145	19.81	100	21540	13.93	100
9590	31.28	100	15150	19.80	100	21600	13.89	100
9600	31.25	100	15240	19.69	50			
9615	31.20	100	15340	19.56	*			

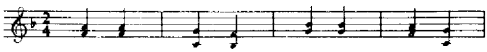
EUROPEAN SERVICE: On 6080/6115/7185/7300/9730kHz:
English: 17.30-18.00, 20.15-20.45, 22.00-22.30, 23.00-23.30 (exc. 7300 kHz). **DX-Prgr:** Mon 17.30, 20.15, 22.00. **French:** 18.30-19.00 (exc. 7300, 9730kHz), 21.00-21.30, 23.45-00.15 (exc. 7300kHz) — **Danish:** 18.00-18.30, 19.15-19.45 (exc. 7300, 9730kHz) — **Italian:** 16.30-17.00, 21.30-22.00—**Swedish:** 17.00-17.30, 19.45-20.15 (exc. 9730kHz). **DX-Prgr:** Mon 17.00, 19.45—**Spanish:** 22.30-23.00—**German:** 16.15-17.00 on 6080, 9730kHz, 19.00-19.15 (exc. 7300, 9730kHz), 20.45-21.00.

OVERSEAS SERVICE:
I = Near East; II = No. We. Africa; III = Ce. Africa; IV = We. Africa; V = Ea. Africa; VI = So. Ea. Asia; VII = No. America (East); VIII = No. America (West); IX = Latin America,

Arabic	Area	kHz
05.15-06.15	I	9730,11900
		15240
10.00-14.00	I	9730,15340
		21495
13.00-14.00	II	15450
19.15-20.15	I	11900,11975
21.30-22.30	II	6050
English		
03.45-04.30	III	11875
06.15-07.00	IV	9570
06.45-07.30	VI	21465
11.15-12.00	VI	21540
12.00-12.45	VI	17880,21540
12.15-13.00	III	21600
	IV	21475
13.15-14.00	III	21475
	IV	21450
13.30-14.15	VI	21540
14.30-15.15	VI	15150
15.15-16.00	VI	15150
16.45-17.30	III	11745
	V	15145
20.00-20.45	IV	9590
01.00-01.45	VII	9500,9730
02.30-03.15	VIII	9500,9730
03.30-04.15	VIII	6050,9650
		9730
French		
04.30-05.15	III	11875
05.30-06.15	IV	9570
11.30-12.15	III	21600
	IV	21475
14.00-14.45	III	21475
	IV	21450

French	Area	kHz
15.15-16.00 / 17.30-18.15	III	11745
	V	15145
19.15-20.00	IV	9590
20.45-21.30	IV	9590
	II	6050
German		
00.45-01.30	IX	9600,9615
01.45-02.30	VII	9500,9730
04.15-05.00	VIII	6050,9650
		9730
12.45-13.30	VI	21540
14.00-14.45	I	9730,15340
		21495
	II	15450
17.00-17.45	I	11975
Portuguese		
23.15-24.00	IX	9500,9600
		9615
01.30-02.15	IX	9600,9615
Spanish		
00.00-00.45	IX	9500,9600
		9615
02.15-03.00	IX	9600,9615
Swahili		
10.45-11.30	V	17830
	IV	21475
	III	21600
16.00-17.30 / 18.15-18.45	V	15145
	III	11745

DX-PROGRAMMES: In English: Mon 12.00 (VI), 12.15 (III), 13.15 (IV), 13.30 (VI), 14.30 (VI), 15.15 (VI), 16.45 (III/V), 17.30 (Europe), 20.00 (IV), 20.15 (Europe), 22.00 (Europe); Tues 01.00 (VII), 02.30 (VII), 03.30 (VIII), 03.45 (III), 06.15 (IV), 06.45 (VI), 11.15 (VI). **In German:** Mon 12.45 (VI), 14.00 (I/II); Tues 00.45 (IX), 01.45 (VII), 04.15 (VIII). **In Swedish:** Mon 17.00, 19.45. **In Italian:** Mon 16.30, 21.30.
ANN: E: "This is R. Berlin International the Voice of the German Democratic Republic". F: "Ici Berlin International, la République Démocratique Allemande vous parle" (Africa Sce: "Ici R. Berlin International, la Voix de la République Démocratique Allemande"). Swedish: "Här är R. Berlin International, Tyska Demokratiske Republikens sänding på svenska", Danish: "De lytter til R. Berlin International. Den Tyske Demokratiske Republik sender til Danmark". I: "Qui R. Berlino Internationale, la voce della Repubblica Democratic Tedesca". P: "R. Berlin Internacional, a voz da República Democrática Alemana". Sp: "Habla R. Berlin Internacional, la Voz de la República Democrática Alemana".
INT-SIG: Theme from GDR National Anthem.



V. by QSL-card. **PUB:** "Funk und Fernsehen (weekly) free on request.

BROADCASTS OF THE SOVIET COMMITTEE FOR CULTURAL RELATIONS

with fellow country-men in the German Democratic Republic: **ADDR:** Vertretung des Sowjetischen Komitees für kulturelle Beziehungen mit Landsleuten im Ausland, Behrenstr. 64/65, Berlin W. 8. Postal Addr: 108, Berlin 8. **Te:** 221480 — Further details see USSR.

RADIO VOLGA (Soviet Forces in Germany)

ADDR: Menzelstr. 5, Potsdam.
STATION: Königswusterhausen 263kHz 1141m 100kW.
D.PRGR: 05.00-23.00 (relay R. Moscow I) — **Special Prgr's for Soviet Forces in E. Germany:** 07.00-08.00 (W), 09.00-10.00 (Sun), 18.00-19.00 — **ANN:** "Govorit Volga".

GIBRALTAR (British Colony)

L.T: GMT + 1 h — **Pr.L:** English, Spanish.

RADIO GIBRALTAR (Gov. Comm.)

ADDR: Wellington Front, Gibraltar. **Cable:** Broadcasts. **Te:** 2519.
L.P: Chmn. Gibraltar Broadc. Corpo: C. R. Piccone. Man. Agents: Gibraltar Broadc. Ltd. Chmn: Lord Thomson. Man. Dir: J. M. Coltart. Gen. Mgr: H. J. Ramagge. Chief Eng: T. G. Black.
STATION: Wellington Front 1484kHz 202.2m 1kW.
HOME SCE: English, Spanish: 06.55-23.00. **N: English:** 07.00, 11.00 (exc. Sat), 12.30*, 20.00, 20.15*. **Spanish:** 13.00*, 13.15, 21.30*, 21.35. **Wrp:** W 08.25, 13.30, Sun 08.30 — * = Local N, other times relay BBC.
ANN: "This is Gibraltar" — **V.** by letter. Re. in English or Spanish. Recorded rep. accepted — **PUB:** Prgr. schedule free on request.
FI: By Gov. and adv — **AD:** 4 times daily — **ALF:** £0-10-0.

BRITISH FORCES BROADC. SCE. GIBRALTAR.

is operated by the Ministry of Defence to provide a sce. of inf. entertainment as well as a link with home for H.M. Forces stationed in Gibraltar. It is non-comm, does not accept adv.
ADDR: B.F.B.S. c/o Hqs. Royal Signals, Wellington Front, Gibraltar — **L.P:** St. Contr: Lt. Col. J. R. Edgar, MBE. Prgr. Org: Miss M. Hoare. Sen. Eng: A. S. Challoner.
STATION: 93.5MHz — **D.PRGR:** W 05.45-08.00, 10.15-13.15, 15.00-22.09 (Sat 10.30-22.09). Sun 09.00-22.09. **N:** 06.00, 07.00, 12.00 (Sat 11.45), 13.00, 18.00, 20.00, 22.00 — **ANN:** "This is the British Forces Broadc. Sce. Gibraltar" — **V.** by QSL-card. Rp.

GREAT BRITAIN

L.T: GMT + 1 h — **Pr.L:** English.

THE BRITISH BROADCASTING CORPORATION

The BBC is an independent body created by a Royal Charter and operated under a Licence and Agreement with the Postmaster General.
ADDR: Broadc. House, London, W.1. **Te:** 01-580-4468. **Telex:** 22182. **Cable:** "Broadcasts"
L.P: Board of Management: Dir. Gen: C. J. Curran. Dir. of Adm: J. H. Arkell, C.B.E. Man. Dir. of TV: H. P. Wheldon, OBE, MC. Dir. of Engineering: J. Redmond. Man. Dir. of Radio: F. G. Gillard, C.B.E. Dir. of External Broadc: O. J. Whitley. Dir. of Public Affairs: Hon. K. H. L. Lamb.
Deputies, Asst. Dir's and Controllers: Dep. Dir. of Engineering: D. B. Weigall. Asst. Dir. of Engineering: D. E. Todd. Asst. Dir. of Radio: R. d'A. Marriott, C.B.E., D.F.C. Contr. of Prgr. Organisation (Radio): M. F. C. Standing, C.B.E. Editor, News and Current Affairs: J. C. Crawley. Contr. Music: W. F. Glock, C.B.E. Contr. Educ. Broadc: R. S. Postgate. Chief Eng. Radio: A. F. Monson. Contr. European Sce's: J. Monahan, C.B.E. Contr. Overseas Sce's: D. M. Hodson. Contr. Adm. External Broadc: R. W. P. Cockburn. Chief Eng. External Broadc: K. R. Sturley, Ph.D. Head of External Sce's News: K. Fairfax. Contr. of Overseas & Foreign Relations: D. Stephenson, C.B.E. Legal Adviser: E. C. Robbins, C.B.E. Contr. Radio 4 and Music Prgr: G. E. H. Mansell. Contr. Radio 1 and 2: R. Scott. Contr. Third Prgr: P. H. Newby. Chief Eng. External Relations: E. L. E. Pawley, O.B.E. Chief Eng. Adm: J. E. F. Voss. Chief Eng, Communications: G. Stannard.

Regional Controllers: Wales: J. H. Rowley. Midlands: P. M. Beech. N. Ireland: B. W. Maguire. Scotland: A. Milne. South and West: A. D. Hawkins, O.B.E. North: R. Stead.

RADIO 4 (Home Service): W 06.35-23.45 approx. Sun 07.50-23.45 approx.

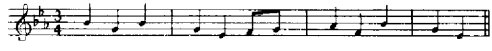
		kHz	m	kW
Cromer	Northern	692	434	2
Moorside Edge		692	434	150
Whitehaven		692	434	1.3
Barrow	—	1484	202	2
Westerglen	Scottish	809	371	100
Burghead	—		—	100
Redmoss		—	—	5
Dumfries	—	—	—	2
Washford	Welsh	881	341	100
Penmon	—	—	—	10
Towyn	—	—	—	5
Wrexham	—	—	—	2
Brookmans Park	London	908	330	140
Ramsgate	—	1484	202	2
Start Point	West	1052	285	100
Barnstaple	—	—	—	2
Clevedon	—	1457	206	20
Bartley	—		—	10
Brighton	—	—	—	2
Folkestone	—	—	—	1
Bexhill	—	—	—	2
Redruth	—	—	—	2
Droitwich	Midland	1088	276	150
Postwick	—	—	—	7.5
Lisnagarvey	N. Ireland	1340	224	100
Londonderry	—	—	—	0.25
Stagshaw	Northern	1151	261	100
Scarborough	—	—	—	2
Whitehaven	North/NE	—	—	0.7

N: 07.00 (W), 08.00, 09.00, 13.00, 18.00, 22.00, 23.00.
Greenwich T.S: 07.00 (W), 08.00 (D), 09.00, 11.00 (W), 13.00, 18.00, 23.00.

RADIO 2 (Light Prgr): W 05.30-02.00, Sun 06.55-02.00.

	kHz	m	kW		kHz	m	kW
Droitwich	200	1500	400	Glasgow	1484	202.2	2
Dundee	1484	202.2	2	Redmoss	1484	202.2	2
Edinburgh	1484	202.2	2				

N: Mon-Fri 05.30 and every h on the half h until 20.30, 19.00, 22.30, 23.30, 23.55; Sat 05.30 and every h on the half h until 12.30, 15.30, 17.30, 19.00, 19.30, 20.35, 22.30, 23.30, 23.55; Sun 07.00, 07.30, 08.30, 09.30, 10.30, 19.30, 22.30, 23.55.
Greenwich T.S: 06.45 (200kHz only), 09.00 (W), 10.00 (W), 12.00 (Sat only), 14.00, 15.00 (Mon-Fri), 19.00 (W), 19.30 (Sun), 20.30 (Mon-Fri).
Opening SIG-TUNE: Theme One.



There are two versions of different durations, used alternately exc. Sun. Also, Harp arpeggio, choice of six harp interludes.

RADIO 3:
647kHz 464m: Daventry (150kW); Edinburgh, Glasgow, Newcastle, Redmoss (2kW) — 1546kHz 194m: Belfast, Bournemouth, Dundee, Exeter, Stockton (0.25kW); Brighton, Fareham, Leeds, Liverpool, Preston, Plymouth, Redruth, Swansea (1kW).
Music Prgr: Mon-Fri 07.00-18.30, Sat 08.00-12.30, Sun 08.00-17.00. Study Session: Mon-Fri 18.30-19.30. Sports Sce: Sat only 12.30-18.00. Third Prgr: Mon-Fri 19.30-23.15, Sat 18.00-23.15, Sun 17.00-23.15.

RADIO 1 (Popular Music Prgr): W 05.30-02.00, Sun 06.35-02.00.

	kHz	m	kW		kHz	m	kW
Brighton	1214	247	1	Moorside Edge	1214	247	35
Brookmans Park	,,	,,	35	Newcastle	,,	,,	2
Burghead	,,	,,	20	Plymouth	,,	,,	0.5
Droitwich	,,	,,	30	Postwick	,,	,,	1
Fareham	,,	,,	1	Redmoss	,,	,,	2
Hull	,,	,,	0.15	Redruth	,,	,,	2
Lisnagarvey	,,	,,	10	Washford	,,	,,	60
Londonderry	,,	,,	0.5	Westerglen	,,	,,	25
				Bournemouth	1484	202	0.5

N: Mon-Sat 05.30, 19.30, 24.00, 02.00; Sun 07.00, 19.30, 24.00.

NB: see last minute details.

FM: Stations	Radio 2	MHz Radio 3	Radio 4		kW/W (ERP)
Ashkirk	89.1	91.3	93.5	a)	18kW*
Ballachulish	88.1	90.3	92.5	a)	15W*
Ballycastle	89.0	91.2	93.4	b)	40W*
Barnstaple	88.5	90.7	92.9	c)	150W*
Bath	88.8	91.0	93.2	c)	35W*
Belmont	88.8	90.9	93.1	d)	8kW*
Betws-y-Coed	88.2	90.4	92.6	e)	10W
Blaen-plyf	88.7	90.9	93.1	e)	60kW
Brecon	88.9	91.1	93.3	e)	10W*
Bressay	88.3	90.5	92.7	a)	10kW*
Brighton	90.1	92.3**	94.5	c)	150W*
Brougher Mountain	88.9	91.1	93.3	b)	2.5kW
Cambridge	88.9	91.1	93.3	f)	20W*
Campbeltown	88.2	90.4	92.6	a)	35W*
Carmarthen	88.5	90.7	92.9	e)	10W*
Churchdown Hill	89.0	91.2	93.4	f)	25W*

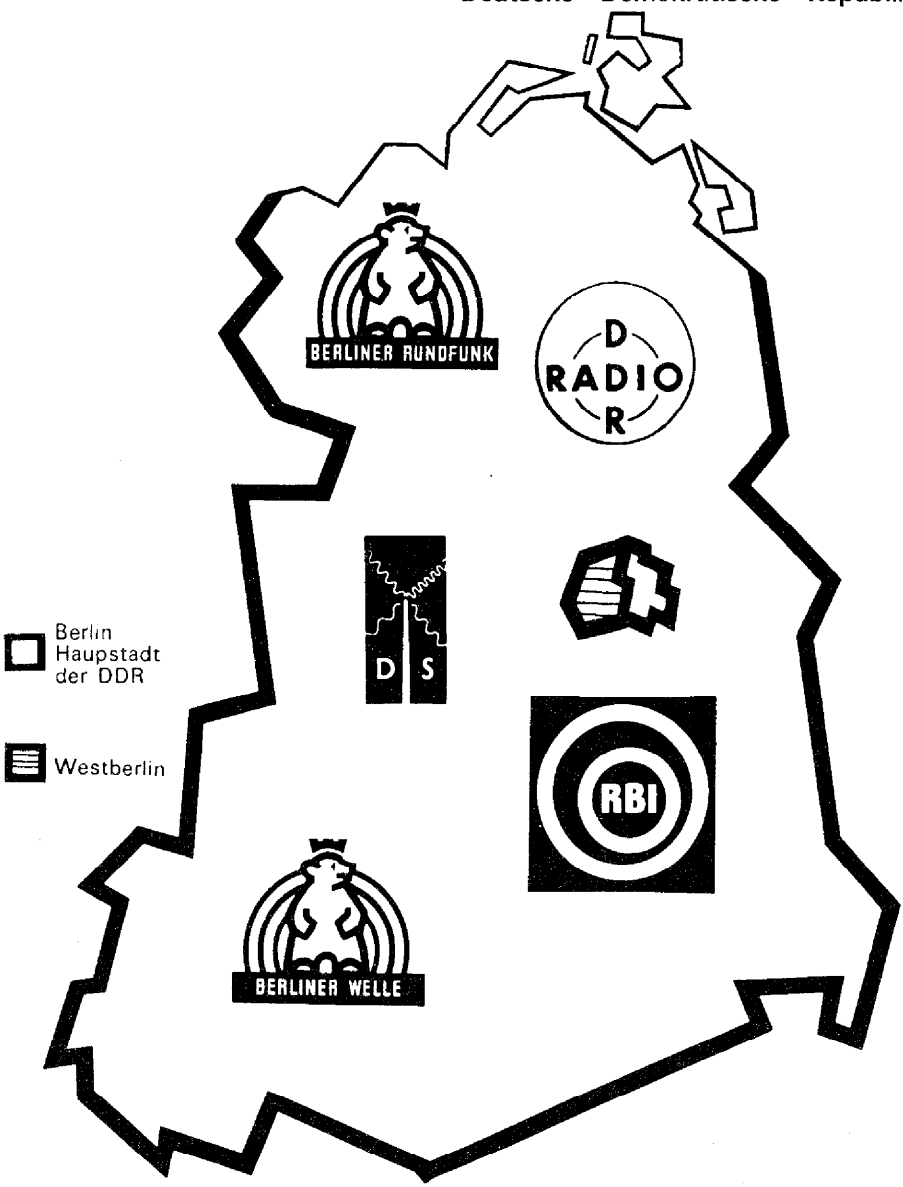
Deutscher Demokratischer Rundfunk

Deutsche Demokratische Republik

116 Berlin
Nalepastrasse 18-50

TELEFON: 632831

TELEX: 011276-278



Great Britain

FM: Stations	MHz Radio 2	Radio 3	Radio 4		kW/W (ERP)
Divis	90.1	92.3	94.5	b)	60kW
Dolgellau	90.1	92.3	94.5	e)	15W
Douglas	88.4	90.6	92.8	d)	6kW*
Ffestimiog	88.1	90.3	92.5	e)	50W*
Forfar	88.3	90.5	92.7	a)	10kW*
Fort William	89.3	91.5	93.7	a)	1.5kW
Grantown	89.8	92.0	94.2	a)	350W*
Haverfordwest	89.3	91.5	93.7	e)	10kW*
Hereford	89.7	91.9	94.1	f)	25W*
Holme Moss	89.3	91.5**	93.7	d)	120kW
Kendal	88.7	90.9	93.1	d)	25W*
Kilkeel	88.8	91.0	93.2	b)	25W*
Kingussie	89.1	91.3	93.5	a)	35W*
Kinlochleven	89.7	91.9	94.1	a)	2W
Kirk o'Shotts	89.9	92.1	94.3	a)	120kW
Larne	89.1	91.3	93.5	b)	15W*
Les Platons	91.1	94.75	97.1	c)	1.5kW
Llanddonna	89.6	91.8	94.0	e)	12kW*
Llandrindod Wells	89.1	91.3	93.5	e)	1.5kW
Llangollen	88.85	91.05	93.25	e)	10kW*
Llanidloes	88.1	90.3	92.5	e)	5W
Lochgilphead	88.3	90.5	92.7	a)	10W*
Londonderry	88.3	90.55	92.7	b)	13kW*
Machynlleth	89.4	91.6	93.8	e)	60W*
Maddybenny More	88.7	90.9	93.1	b)	30W*
Meldrum	88.7	90.9	93.1	a)	60kW
Melvaig	89.1	91.3	93.5	a)	22kW*
Morecambe Bay	90.0	92.2	94.4	d)	4kW*
Newry	88.6	90.8	93.0	b)	30W*
Northampton	88.9	91.1	93.3	f)	60W*
North Hessary Tor	88.1	90.3	92.5	c)	60kW
Oban	88.9	91.1	93.3	a)	1.5kW
Okehampton	88.7	90.9	93.1	c)	15W*
Orkney	89.3	91.5	93.7	a)	20kW*
Oxford	89.5	91.7	93.9	f)	22kW*
			95.85	c)	
Penifiler	89.5	91.7	93.9	a)	6W*
Perth	89.3	91.5	93.7	a)	15W*
Peterborough	90.1	92.3	94.5	f)	20kW*
Pitlochry	89.2	91.4	93.6	a)	200W*
Pontop Pike	88.5	90.7	92.9	d)	60kW
Redruth	89.7	91.9	94.1	c)	9kW*
Rosemarkie	89.6	91.8	94.0	a)	12kW*
Rowridge	88.5	90.7	92.9	c)	60kW
Sandale	88.1	90.3	94.7	d)	120kW
			92.5	a)	
Scarborough	89.9	92.1	94.3	d)	25W*
Sheffield	89.9	92.1	94.3	d)	60W
Skriaig	88.5	90.7	92.9	a)	10kW*
Sutton Coldfield	88.3	90.5**	92.7	f)	120kW
Swingate	90.0	92.4**	94.4	g)	7kW*
Tacolneston	89.7	91.9	94.1	f)	120kW
Thrumster	90.1	92.3	94.5	d)	10kW*
Toward	88.5	90.7	92.9	d)	250W
Ventnor	89.4	91.6	93.8	c)	10W*
Weardale	89.7	91.9	94.1	d)	100W*
Wensleydale	88.3	90.5	92.7	d)	25W*
Wenvoe	89.95	96.8	94.3	e)	120kW
			92.13	c)	
Wrotham	89.1	91.3**	93.5	g)	120kW

Version of Home Sce's: a) Scottish; b) No. Ireland; c) South & West; d) North; e) Welsh; f) Midland; g) London.
*) Directional aerial; **) Carries stereophonic tr's at times.

Local Radio Stations

Location	MHz	kW/W	Location	MHz	kW/W
Brighton	88.1	75W*	Nottingham	94.8	140W
Durham	96.8	2.6*	Sheffield	88.6	30W
Leeds	94.6	140W	Sheffield	95.05	30W
Leicester	95.05	140W	Stoke-on-Trent	94.9	2.5*
Merseyside	95.85	2.5*			

EXTERNAL SERVICES

41 sw-tr's: 15/50/75/100/250kW.
G.C: Woofferton 02.43W/52.29N. **Daventry** 01.08W/52.15N, Rampisham 02.38W/50.48N. **Skelton** 02.54W/54.44N.

kHz	m	kHz	m	kHz	m	kHz	m
3952	75.90	7110	42.19	9530	31.48	9740	30.80
3975	75.47	7120	42.13	9555	31.40	9750	30.77
5965	50.28	7130	42.08	9570	31.35	9760	30.74
5975	50.21	7140	42.02	9580	31.32	9765	30.72
5990	50.08	7150	41.96	9600	31.25	9770	30.71
6010	49.92	7155	41.92	9625	31.17	9825	30.53
6050	49.59	7185	41.75	9635	31.14	9915	30.26
6065	49.46	7200	41.67	9640	31.12	11680	25.68
6080	49.34	7210	41.61	9650	31.09	11705	25.63
6090	49.26	7230	41.49	9660	31.06	11710	25.62
6110	49.10	7235	41.47	9670	31.02	11720	25.60
6120	49.02	7260	41.32	9675	31.01	11750	25.53
6125	49.98	7280	41.21	9690	30.96	11760	25.51
6140	48.86	7320	40.98	9700	30.93	11780	25.47
6150	48.78	7325	40.96	9705	30.91	11800	25.42
6170	48.62	9410	31.88	9715	30.88	11820	25.38
6180	48.54	9510	31.55	9725	30.85	11830	25.36
6195	48.43	9525	31.50	9735	30.82	11840	25.34
11860	25.30	15210	19.72	17745	16.91	21610	13.88
11865	25.28	15230	19.70	17790	16.84	21615	13.88
11880	25.25	15235	19.69	17800	16.85	21630	13.87
11890	25.23	15245	19.68	17810	16.84	21640	13.86
11905	25.20	15260	19.66	17820	16.84	21660	13.85
11910	25.19	15285	19.63	17860	16.80	21670	13.84
11915	25.18	15290	19.62	17870	16.79	21680	13.84
11925	25.16	15300	19.61	17880	16.78	21690	13.83
11930	25.15	15310	19.60	17885	16.78	21710	13.82
11945	25.12	15350	19.54	17890	16.77	21740	13.80
11955	25.09	15375	19.51	18080	16.59	25650	11.70
12040	24.92	15390	19.49	21455	13.98	25670	11.66
12095	24.80	15410	19.47	21470	13.97	25710	11.66
15070	19.91	15420	19.46	21490	13.96	25840	11.61
15105	19.86	15435	19.44	21530	13.93	25850	11.60
15140	19.82	17695	16.95	21550	13.92	25920	11.57
15180	19.76	17705	16.94	21590	13.90	26040	11.52
15195	19.74	17715	16.93	21595	13.89	26080	11.50
15200	19.74	17740	16.91	21600	13.89		

The above freq's are shared between the European and Overseas Services and in addition the following freq's are used as follows:
Long & Medium Waves: European Services 200/647/809/1295kHz, Arabic Service: 638/719/1178kHz, Persian Service: 719kHz, World Service: 638/719/1421kHz.
VHF: German Service 90.2MHz.
The columns below show the frequencies which the BBC expects to use during the months from November to March. Details of wavelengths can be obtained from the programme journals, and are always announced at the microphone.

EUROPEAN SERVICES

(* = East Mediterranean Relay;)

Bulgarian	**kHz**
04.45-05.00	3975, 6140, 7120* 7260, 9765, 11945 15140
11.30-11.45	15390, 17800 21640
13.15-13.30	15390, 17870 21640
16.30-17.15	9635, 12040 15390
18.45-19.00a	6050*, 7230*
21.15-21.45	6050*, 7325, 9635
Czech	
05.15-05.30	647, 1295, 3952 6195, 7230, 9625* 9690, 9750, 11780
06.45-07.00	3952, 6195, 7230 9690, 11905*
13.45-14.00a / 14.00-14.30	9410, 11945 15180
14.30-14.45	11945, 15180
14.15-15.15	11945, 15180
19.00-19.45	3975, 5990 7210*, 9650
22.15-22.30	3952, 5990, 7210*
Slovak	
11.15-11.30	9750, 11780 11945, 15180 17800
16.00-16.15	9600, 11945 15180
19.15-19.30	6125, 7110
20.45-21.15	5990, 9650
English	
04.00-04.30	200, 3975, 6050 6140, 7105, 7120* 7260, 9690*, 9750
05.45-06.00	647, 1295
06.00-06.30	647, 1295, 3975 6050, 6140, 6150 7120, 7260, 9765 11945, 15140 15435*
07.00-07.15b	1295, 3975, 6050 6140, 6150, 7120 9765, 11945 15140, 15435*
09.15-09.00(W)	11945, 15390
13.00-13.15b	9510, 9750, 11780 11945, 15180 15435, 15390 17695, 21640
17.00-18.00	1295, 3952, 5975 6195, 7185, 7120 9600, 9770, 11750
21.00-21.15	1295, 3952, 5975 6050*, 6125, 6195 7110, 7185, 7230* 7325, 9600* 9635, 9770
22.30-22.45	1295, 3975, 5975 6195, 7185, 7230
English by Radio	
06.45-07.00	1295, 3975, 6050 6140, 6150, 7120 7260, 9765, 11945 15140, 15435*

English by Radio	**kHz**
12.30-13.00	809, 9510, 9750 11780, 11945 15180, 15435
18.00-18.15	1295, 3952, 5975 7185, 9635, 9770 12040
18.15-18.30	1295, 3952, 6050* 7230*, 9690*
18.30-18.45	6050*, 7230*
19.30-20.00	5975, 6050*, 6125 7110, 7185, 9770
Finnish	
15.30-16.00	9750, 11780
15.45-16.00c	9750, 11780
16.00-16.45	9750, 11780
18.15-18.30	5975, 7185
French	
05.30-05.45	1295
06.30-06.45	647, 1295, 3975 6050, 6150, 7120 7260, 15435*
07.15-07.30	1295, 3975, 6050 6150, 7120, 7260
11.30-12.15	809, 9750, 11780 15435
18.30-19.30	1295, 5975 7185, 9770
21.30-22.00	1295, 3975 6195, 7230
German	
04.30-05.15	647, 1295, 3952 6195, 7230, 9625*
05.45-06.15	1295, 3952, 6195 7230, 9690 11905*
11.45-12.00 / 12.00-12.15	1295, 9510 11945, 15180
16.30-16.45 / 16.45-17.00d	1295, 3952, 6195 7185, 9600
19.00-21.00	1295, 3952, 6195 7230*, 9600*
All prgr also on FM 90.2MHz.	
Greek	
05.45-06.00	3975, 6140 7260, 9765
11.45-12.00	15390, 17695 21640
15.45-16.00c	11770, 15390 17695
19.00-19.30	7325, 9635, 12040
22.45-23.00	3952, 6180, 7120
Hungarian	
05.30-05.45	3952, 6195, 7230 9625*, 9690
06.30-06.45	3952, 6195, 7230 9690, 11905*
10.00-10.30	11945, 15235
12.15-12.30	9510, 11945 15180
13.45-14.00f	9410, 11945 15180
15.15-15.30	9600, 11945 15180

Hungarian	kHz
19.45-20.45	3975, 5990 7210*, 9650
22.00-22.15	3952, 5990, 7210*
Italian	
10.15-10.30g	15390, 17695 21640
15.30-15.45h	11770, 15390 17695
22.00-22.30	1295, 3975 6195, 7230
Polish	
04.15-04.30	647, 3952, 6195 7230, 9625*
06.15-06.30	3952, 6195, 7230 9690, 11905*
13.15-13.30 } 13.30-13.45° } 13.30-13.45j }	9410, 11945 15180
15.30-16.00°°	11945, 15180
18.00-19.00	3975, 6125, 7210 9750, 11780
21.00-21.15°°	7260, 9510
21.15-22.00	1295, 3952, 6125 7210*, 7260
Portuguese	
12.15-12.30	11780, 15435
22.00-22.30	5975, 7185
Rumanian	
04.30-04.45	3975, 6140, 7210* 7260, 9765
11.15-11.30	15390, 17695 21640
16.00-16.30	9635, 12040 15390
18.45-19.00f	6050*, 7230*
20.00-21.00	6050*, 7325, 9635
Russian	
03.30-03.45°°	6050, 6140, 7105 7260, 9750
03.45-04.00	647, 3975, 6050 6140, 7105, 7260 9690*, 9750 11780, 11955 15285
05.00-05.15	3975, 6140, 7120* 7260, 9750, 9765 11780, 11945 15140

Russian	kHz
11.00-11.15	9410, 9750, 11780 11945, 12040 15180, 15195 15235, 15390 17800, 17870 21455, 21640 21690
13.30-13.45	9750, 11780 15390, 15435 17740, 17870 21530, 21640
14.45-15.30	9410, 9625, 9750
15.30-15.45(W)	11780, 12040 15300
15.45-16.00°°°	15435, 17740 21530
16.45-17.00d	6125, 7210, 9750 11780, 11945 15180
17.00-18.00	6125, 7210, 9690* 9750, 11780 11905*, 11945 15180, 15300 18080
20.00-21.00	7230*, 9510
Spanish	
07.30-07.45j	6150, 7120
13.15-13.30	11780, 15435
21.15-22.00	5975, 7185
Turkish	
05.15-05.30	3975, 6140 7260, 9765
15.45-16.00a	11770, 15390 17695
18.15-19.00	7325, 9635, 12040
Serbo-Croat	
12.45-13.00a	15390, 17695 21640
14.15-14.30	12040, 15390 17695
15.30-16.00 (Slovene)	9410, 12040 15300
17.15-18.00	9635, 12040 15390
18.00-18.30 (Slovene)	6195, 9600
21.45-22.00	6050*, 7325, 9635

a) E. by R. (Tues/Thurs/Sat); b) World See; c) E. by R. (Mon/Wed/Thurs/Sat); d) E. by R; e) E. by R. (Sun/Mon/Wed/Fri); f) E. by R. (Mon/Wed/Fri); g) E. by R. (Sun); h) E. by R. (W); i) E. by R. (Wed/Sat); j) E. by R. (Mon/Wed/Thurs/Fri).
°) Sun; °°) CBC relay; °°°) Tues & Fri.

BBC WORLD SERVICE

C = East Mediterranean Relay; T = Far Eastern Station; A = Atlantic Relay (250kW).

To New Zealand	kHz
09.00-11.30	21550
09.00-11.30	17790
20.00-22.45	15260(A)
07.00-12.15	15070
05.45-09.15	11955
09.00-14.00	11750(T)
20.00-22.45	11750
05.45-09.15	9640
20.00-22.00	9410
05.45-09.15	7150
20.00-22.45	7120

To Australia	kHz
09.00-11.30	25710
09.00-11.30	21550
09.00-11.30	17790
05.45-09.15	11955
09.00-14.00	11750(T)
20.00-22.45	11750
05.45-09.15	9640
20.00-22.00	9410
05.45-09.15	7150
20.00-22.45	7120

To Far East Japan, N. & E. China, Korea/ N.W. Pacific	kHz
09.00-13.30	21660(C)
00.00-00.45	17880(T)
09.00-13.30	17880(T)
00.00-00.15	15435(T)
13.00-13.30	15435(T)
23.00-23.15	15435(T)
09.00-09.45	15310
09.00-12.15	15070
00.00-00.15	11955
09.00-09.45	11955
23.00-23.15	11955
00.00-00.30	11850

To Far East Japan, N. & E. China, Korea/ N.W. Pacific	kHz
00.00-00.30	11850(T)
09.00-14.00	11750(T)
23.00-23.15	9725(T)
23.00-23.15	6065(C)

To India Pakistan, Ceylon & Nepal	
09.00-15.15	25710
09.00-13.30	21660
09.00-16.15	21550
09.00-16.15	17790
09.00-18.15	15070
14.00-18.15	12095
01.45-03.30	11955(C)
16.30-18.15	11955(T)
14.00-17.15	11805(T)
09.00-16.45	11750(T)
01.45-03.30	9625(C)
17.00-18.15	9580(T)
00.00-00.30	9410
01.45-03.30	9410
16.00-18.15	9410
23.00-23.15	9410
00.00-00.30	7325
01.45-03.30	7230
01.45-03.15	6180
00.00-00.30	6150
23.00-23.15	6150

To Burma & Thailand	
09.00-15.15	25710
09.00-16.15	21550
09.00-16.15	17790
00.00-00.15	15435(T)
09.00-09.45	15310(T)
11.30-18.15	15070
00.00-00.15	11955(T)
16.30-18.15	11955(T)
01.45-02.15	11955(C)

To Burma & Thailand	kHz
00.00-00.30	11850(T)
14.00-17.15	11805(T)
09.00-16.45	11750(T)
00.00-00.15	9725(T)
14.15-18.15	9725(T)
23.00-23.15	9725(T)
14.00-18.15	9580(T)
00.00-00.30	9410
01.45-02.15	9410
23.00-23.15	9410
00.00-00.30	7325
23.00-23.15	7325
01.45-02.15	7230
13.00-18.15	7120(T)
01.45-02.15	6180
00.00-00.30	6150
23.00-23.15	6150
23.00-23.15	3915(T)

To South China, Hong Kong, Vietnam, Laos & Cambodia	
09.00-15.15	25710
09.00-16.15	21550
09.00-13.30	17880(T)
09.00-16.15	17790
00.00-00.15	15435(T)
13.00-13.30	15435(T)
23.00-23.15	15435(T)
09.00-09.45	15310(T)
11.30-18.15	15070
00.00-00.15	11955(T)
09.00-09.45	11955(T)
23.00-23.15	11955(T)
01.45-02.15	11955(C)
00.00-00.30	11850(T)
09.00-16.45	11750(T)
00.00-00.15	9725(T)
14.15-18.15	9725(T)
23.00-23.15	9725(T)
14.00-18.15	9580
00.00-00.30	9410
01.45-02.15	9410
23.00-23.15	9410
00.00-00.30	7325
23.00-23.15	7325
01.45-02.15	7230
13.00-18.15	7120(T)
01.45-02.15	6180
00.00-00.30	6150
23.00-23.15	6150
23.00-23.15	3915(T)

To Indonesia	
09.00-15.15	25710
09.00-16.15	21550
09.00-16.15	17790
11.30-18.15	15070
14.00-18.15	12095
23.00-23.15	11955(T)
09.00-16.45	11750(T)
09.00-09.45	9725(T)
11.00-11.45	9725(T)
23.00-23.15	9725(T)
00.00-00.30	9570(T)
00.00-00.30	9410
01.45-02.15	9410
16.00-18.15	9410
23.00-23.15	9410
00.00-00.30	7325
23.00-23.15	7325
09.00-09.15	7235
11.00-11.15	7235
01.45-02.15	7230
23.00-23.15	7120(T)
01.45-02.15	6180
00.00-00.30	6150
23.00-23.15	6150
23.00-23.15	6080(T)
23.00-23.15	3915(T)

To Singapore & Malaysia	
09.00-15.15	25710
09.00-16.15	21550
09.00-16.15	17790
11.30-18.15	15070
14.00-18.15	12095
00.00-00.30	9410
01.45-02.15	9410
16.00-18.15	9410
23.00-23.15	9410
00.00-00.30	7325
23.00-23.15	7325
01.45-02.15	7230
01.45-02.15	6180
00.00-00.30	6150
23.00-23.15	6150

To Middle East	
09.00-16.15	25650
09.00-13.30	21660(C)
06.00-16.15	21470
05.45-07.30	17790
09.00-16.15	17790
05.00-07.30	15285
11.30-18.15	15070
04.00-07.30	12095
09.00-20.00	12095
01.45-03.30	11955(C)
03.00-03.45	11720(C)
05.45-07.30	11720(C)
03.00-03.45	9650(C)
05.45-07.30	9650(C)
01.45-04.15	9625(C)
01.45-07.30	9410
16.00-22.00	9410
01.45-04.15	7230
03.00-03.45	7140(C)
05.45-07.30	7140(C)
18.00-22.45	7120
01.45-05.45	6180
18.00-22.45	6180
03.00-03.45	6120(C)
05.45-07.30	6120(C)
21.15-00.30	6110
03.00-03.45	3975
03.00-08.30	1421(C)
09.30-23.15	1421(C)
03.00-03.45	719(C)
05.45-07.30	719(C)
03.00-03.45	638(C)
05.45-07.30	638(C)

To East Africa	
09.00-16.15	25650
06.00-16.15	21470
05.00-07.30	17885(C)
09.00-17.45	17885(C)
05.45-07.30	17790
03.00-07.30	15420(C)
10.30-14.15	15420(C)
18.30-21.15	15420(C)
05.00-07.30	15285
13.00-18.15	15070
04.00-07.30	12095
14.00-20.00	12095
03.00-07.30	9410
16.00-21.15	9410
18.00-21.15	7120
03.00-05.45	6180
18.00-21.15	6180

To Italy, Malta, Greece, Cen. Mediterranean & North Africa	
06.00-06.15	21470
05.45-07.30	17790
09.00-12.15	17715
05.00-07.30	15285
06.00-21.15	15070
04.00-07.30	12095
09.00-20.00	12095
04.00-07.30	11750
18.00-21.15	11750
04.00-07.30	9580
04.00-07.30	9410
16.00-22.00	9410
04.00-07.30	7185
18.00-22.45	7120
04.00-05.45	6180
18.00-22.45	6180
21.15-00.30	6110

To Central & South Africa	
09.00-16.15	25650
08.00-09.15	21710
10.30-18.30	21710
05.00-07.30	17885(C)
09.00-17.45	17885(C)
07.00-09.15	17810
17.45-18.15	17740(A)
10.30-17.15	17705
04.00-07.30	15420(C)
10.30-14.15	15420(C)
18.30-21.15	15420(C)
17.00-21.15	15400(A)
20.00-22.45	15260(A)
04.00-09.15	15235(A)
17.45-18.30	15105
06.00-21.15	15070
20.00-20.15	11820(A)
04.00-07.30	11750
18.00-21.15	11750
05.00-05.15	9600
06.00-06.30	9600
07.00-09.15	9600
04.00-07.30	9580
17.45-22.00	9410
04.00-07.30	7185
18.00-22.45	7120
18.00-22.45	6180

Great Britain

To West & North West Africa, Gibraltar, Western Mediterranean

	kHz
10.30-16.15	25650
08.00-09.15	21710
10.30-18.30	21710
07.00-09.15	17810
10.30-17.15	17705
20.00-00.30	15260(A)
07.00-09.15	15235
08.00-09.15	15105(A)
17.45-18.30	15105(A)
06.00-21.15	15070
05.00-05.15	11925
06.00-06.30	11925
05.00-09.15	11860(A)
17.45-20.15	11820(A)
05.00-07.30	11750
18.00-21.15	11750
05.00-05.15	9600(A)
06.00-06.30	9600(A)
07.00-09.15	9600(A)
05.00-07.30	9580
20.00-21.15	9580(A)
05.00-05.15	9510
06.00-06.30	9510
17.45-22.00	9410
22.45-00.30	7130
05.00-07.30	7185
05.00-05.15	7105(A)
06.00-06.30	7105(A)
07.00-07.15	7105(A)
18.00-22.45	6180
05.00-08.00	6110

To West & North West Africa, Gibraltar, Western Mediterranean

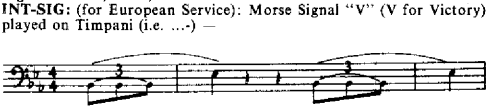
	kHz
05.00-05.15	5975
06.00-06.30	5975
To South America (So. of Amazon, excl. Peru)	
17.45-21.15	15400(A)
20.00-04.15	15260(A)
20.00-20.15	15140
21.15-00.30	15140
21.00-04.15	11750
22.00-04.15	9600
22.00-03.30	9510(A)
To West Indies, Cen. America, South America (No. Amazon, incl. Peru)	
10.30-13.15	21740
10.30-13.15	17790
22.00-04.15	15260(A)
20.00-03.30	11750
21.15-03.30	9580
22.00-03.00	9510(A)
23.00-03.30	6110
To Canada, USA and Mexico	
21.15-00.30	11780
21.15-03.30	9580
21.15-03.30	6110
To Pacific Islands	
22.00-04.15	15260(A)
22.00-04.15	9600
To Atlantic Islands & Antarctica	
22.00-04.15	9600
22.00-04.15	7130

N: 00.00, 02.00, 03.00, 04.00, 05.00, 06.00, 07.00, 09.00, 11.00, 13.00, 14.00(Sat only), 16.00, 17.00, 18.00, 20.00, 22.00, 23.00. **Commentary:** 02.09, 04.09, 06.09, 07.09, 11.09, 14.09(Sat only), 16.09, 20.09, 23.09 — **N. about Britain:** 00.09, 03.09, 07.20, 13.09, 18.09 — **R. Newsreel:** 00.15, 06.15, 08.00, 12.00(W), 15.00(exc. Sat), 18.15 — **From the Editorials:** 01.50(exc. Sun), 03.50, 05.09, 07.15, 09.15 — **The World Today:** Mon-Fri 22.09 & repeated next day 03.15, 05.45, 08.15, 13.15 — **Letters from the World:** Tues 11.30, 16.15, 23.15 — **Letterbox:** Fri 15.45, Sat 23.45, Sun 05.45, 20.15 — **Greenwich T.S:** 00.00, 02.00, 03.00, 04.00, 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 14.15, 15.00, 16.00, 17.00, 18.00, 20.00, 22.00, 23.00 — **World Radio Club:** Sun 09.30, Mon 02.45, Thurs 12.45.

The BBC World Service is also re-broadcast by the Far Eastern, East Mediterranean, Middle East and Atlantic relays (see the resp. stations).

GREENWICH T.S: at the h are radiated on one or other of the European Prgr's on the long, medium or sw. normally scheduled at 04.00, 05.00, 06.00, 11.00, 14.00, 16.00, 19.00, 20.00, 21.00, 22.00 — **Big Ben:** 12.00, 19.00, 21.00.

INT-SIG: (for European Service): Morse Signal "V" (V for Victory) played on Timpani (i.e. ...-) —



OTHER OVERSEAS SERVICES

Freq's in bold types = Atlantic Relay; C = East Mediterranean Relay; L = Ce. Mediterranean Relay; T = Far Eastern St.

ARABIC SCE.

To Middle East & Ce. Mediterranean:
03.45-05.45 on 12040, 11720(C), 9825, 9650(C), 7325, 7140(C), 6120(C), 6090, 638(C), 719(C), 1178(L)kHz; 13.00-21.15 on 25670 (closes 16.00), 21630(closes 16.30), 17715(closes 16.30), 17720(C), 9825(opens 16.00), 9650(C) (closes 17.45), 7260(opens 17.45), 7140(C) (not 16.15-17.00), 6120(C), 638(C), 719(C) (not 16.15-17.00), 1178(L)kHz.

To Algeria, Morocco & Mauritania: 04.45-05.45 on 7325, 6050kHz; 13.00-21.00 on 17715(closes 16.30), 15140(closes 17.45), 9825(opens 17.00), 6110kHz(opens 17.45).

ENGLISH

African Sce	kHz
04.45-05.00	5975, **7105, 7210** 9510, **9600, 11860** 11925
06.30-07.00	5975, 7210, 9710 **11860,** 11880, **15235**
07.30-08.00	**9600, 11860, 15235** 11925, **15105** **15435,** 17715
11.15-12.00	21630, 26080
16.30-17.00	**15400,** 15420(C) **17740,** 21630, 25670
16.45-17.00	**11820, 15105**
17.00-17.45	9915, **11820, 15105** 15420(C), **17740** 21630, 25670
20.15-20.30	**9580, 11820** 11945, 15140, 17740
20.30-21.15	**9580, 11820**
21.15-21.30	**11820**

N: 05.15(WS), 06.30, 07.30, 17.27, 20.27.

TABLE OF SHORTWAVE STATIONS to the Summer-Supplement 1969

In order to make this as complete and up-to-date as possible we direct an earnest appeal to **all radio stations using short-wave** to send us regularly their transmission- and/or programme-schedules.

Mauritius Sce. kHz
09.45-10.00* 17715, 21630, 25670
*) Mon fortnightly.

No. American Sce.
15.00-15.45 21610
17.00-17.30 21610

Caribbean Sce.
21.15-21.30 9580, 11945, 15200 (Mon-Fri)

Falkland Isl. Sce.
22.15-22.45 (Sun) 9600, 11945

Antarctica Sce.
22.15-22.45** 9510, 11830
**) First Tues of month.

ENGLISH BY RADIO
(Far Eastern Station relays)

Times	kHz
23.30-23.45	3915*, 6080* 7120*, 9725* 11955*
00.30-00.45	7235*, 9725*, 11850 11955, 15435, 17880
09.45-10.00	7235*, 9725* 11955, 15310
13.45-14.00	9580, 15435
16.15-16.30	11955

*) For Indonesia.

MALTESE
16.50-16.55 7120, 11750

FRENCH (to Africa)

	kHz
04.30-04.45	5975, **7105,** 7210 9510, **9600** **11860,** 11925
05.15-05.45	5975, **7105,** 7120 7210, 9510
06.30-07.00	**9600,** 11925 **7105,** 9510 **9600,** 11925, 15390
11.30-12.15	15435 (No. Africa)
12.00-13.30	17810, 21610, 26080
18.30-19.30	**9580,** 9770, 11945 **15105,** 15180 17740, 21710
21.15-21.30	**9600, 15400**
21.30-21.45	9770, **9600, 11820** 11945, 15180, **15400**

HAUSA

05.45-06.00	5975, **7105,** 7210 9510, **9600,** 11925
13.45-14.15	17810, 21610, 26080
19.30-19.45	**9580,** 11945, **15105** 15180, 17740, 21710
19.45-20.00	9580, 15105

LATIN AMERICAN SCE.

Portuguese	kHz
22.00-00.15	9765, 9825, **11820** 12040, **15180,** 15390
Spanish	
00.15-03.15a	9765, 9825, 11770 **11820,** 12040, **15180**
00.15-03.15b	7210, 9765, 11770
01.15-03.15c	5975, 9765, 9825 **11820, 15180**
01.15-03.15d	5975, 9765, **11820** **15180**
03.15-04.15c	5975, 9765 **11820, 15180**
03.15-04.15d	5975, 9765, **11820** **15180**

a) to So. America (South); b) to Atlantic Isl; c) to So. America (North/Ce. America; d) to Mexico & Ce. America.

EAST AFRICAN SCE.

Somali	
14.30-15.00	11770, 15390 15420(C), 17695 21640
18.00-18.15	9915, 11945 15180, 15420(C)
18.15-18.30	15420(C)
Hindi	
15.00-15.45	15420(C), 21590
Swahili	
03.30-03.45	6090, 7325 9825, 12040
09.45-10.00	15420(C), 17695 21630, 25670
10.00-10.15	15420(C)
15.45-16.15	15105, 15420(C) 18080, 21590
Urdu	
14.15-14.30	15420(C), 21590
14.30-15.00	21590

ASIAN SCE.

Bengali	
01.30-01.45(W)	6180, 7230, 9410
01.30-02.00 (Sun)	9625(C), 11955(C)
09.30-10.00*	18080, 21680, 25750
15.45-16.15*	9690(C), 11910(C) 11955(C)
Burmese	
23.30-23.45	6150, 7325 9410, 11865(C)
00.15-00.30	9725(T), 11955(T) 15435(T)
13.45-14.15	9725(T), 11910(C) 11955(T), 15105 18080, 21680, 25750
Hindi	
15.00-15.45	9690(C), 11910(C) 11955(T), 15105 18080, 21680
Persian	
16.15-17.00	719(C), 7140(C) 9690(C), 9915 11910(C)
Sinhala	
09.30-10.00a	18080, 21680, 25750
15.45-16.15a	9690(C), 11910(C) 11955(T)
Tamil	
09.30-10.00b	18080, 21680, 25750
Urdu	
14.15-15.00	9690(C), 11910(C) 11955(T), 15105 18080, 21680
Chinese	
22.15-22.45	3915/6010/7120(T) 9725/11955/ 15435(T), 6065 11865(C), 6150 7325, 9410
10.00-10.30	7235, 9725(T) 11955, 15310(T) 18080, 21680, 25750 21610(C)
12.00-13.00	7120, 9725(T) 11955, 15435(T) 15260(C) 18080, 21680, 25750
Indonesian	
23.15-23.30	3915, 6080, 7120(T) 9725, 11955(T) 11865(C), 6150 7325, 9410
10.30-11.00	7235, 9725 11955(T), 18080 21680, 25750
Japanese	
22.00-22.15	7120, 9725(T) 11955, 15435(T) 6065, 11865(C) 6150, 7325, 9410
11.00-11.30	11955, 15435(T) 21610(C), 18080 21680, 25750
Malay	
13.00-13.15	15260(C), 18080 21680, 25750
Thai	
23.45-24.00	6150, 7325, 9410 9725, 11955 15435(T), 11865(C)
13.15-13.45	9725, 11955(T) 15260(C), 18080 21680, 25750
Vietnamese	
22.45-23.00	3915, 7120, 9725(T) 6065, 11865(C) 6150, 7325, 9410
11.30-12.00	7120, 9725(T) 11955, 15435(T) 18080, 21680, 25750

*) Mon/Wed/Sat; a) Tues/Fri; b) Sun/Thurs.

V. The BBC welcomes reception reports which are acknowledged with a special card. Re. to C.E.X.B, Bush House, London W.C.2. **PUB:** "Radio Times", "The Listener" (weekly), "English by Radio and Television" (fortnightly), "London Calling" (European edition, monthly – Overseas edition, monthly, BBC Handbook (annually) —

FI: The revenue for its Domestic Sce's is drawn from license fees paid by listeners and viewers; the revenue for its External Sce's is provided by a Grant-in-Aid from the Treasury — **ALF:** £1-5-0 (radio), £5-0-0 (radio and TV).
For various relay st's: see Ascension Island, Malta, Cyprus, Malaysia.

BRITISH FORCES BROADC. SCE. (Head Office).

Responsible for the operation and control of the sce. on behalf of the Ministry of Defence. Also produces some 35hrs. of recorded prgrs. a week for tr. by B.F.B.S. st's in Germany, Cyprus, Tobruk, Malta, Gibraltar and Singapore (see resp. countries).
ADDR: Kings Bldgs, Dean Stanley St, London S.W.1. **Te:** 01-828 5646 — **L.P:** Dir: B. W. Cave-Browne-Cave, OBE. Contr. Prgr's: I. J. Woolf. Contr. Prgr. Adm: A. E. Watson. Chief Eng: P. I. K. Woodford.

MANX RADIO (Comm.)

Licensed by the GPO on behalf of the Isle of Man Gov —
ADDR: Loch Promenade, Douglas, Isle of Man. **Te:** 3277 — **L.P:** Chmn: J. W. W. Hyde. Gen. Mgr. & Chief Eng: R. Joyce.
STATIONS: 1295kHz 232m 1/0.2kW(daylight) — 1594kHz 188m 1/0.2kW (dawn-and-dusk)* 89MHz 91.2MHz.
D.Prgr's: 07.00-19.00. After 19.00 Rlg. prgr's on 89/91.2MHz & 1594kHz only; closedown varies from 19.15 to 22.00 — *) also used from 10.00 for rlg. prgr's.
ANN: "This is Manx Radio on . . . mw also broadc. in the VHF band on 89MHz and 91.2MHz from Douglas, Isle of Man".

VOICE OF AMERICA RELAY STATION IN GREAT BRITAIN

ADDR: Voice of America, Washington, D.C. 20547, USA.
STATIONS: Woofferton 250kW: 02.00-07.30, 12.00-23.00(Sun 23.15)

kHz	m	kHz	m	kHz	m	kHz	m
5965	50.29	6150	48.78	9530	31.48	15205	19.73
6050	49.59	7170	41.84	9740	30.80	15235	19.69
6080	49.34	7200	41.67	11710	25.62	17855	16.80
6095	49.22	7250	41.38	11760	25.51	21510	13.94
6125	48.98	7270	41.27	15195	19.74		

G.C: 02.43W/52.19N.
D.PRGR: See USA — **ANN:** "This is the Voice of America" is announced in the language of the program in which it is given. Station identification is in English: "A broadcast of the Voice of America on facilities placed at their disposal by the British Broadcasting Corporation" — **V.** by QSL-card.

GREECE

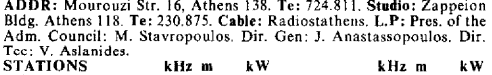
L.T: GMT + 2 h — **Pr.L:** Greek.

NATIONAL HELLENIC BROADCASTING INSTITUTE

(Ethnikon Idhryma Radiophonias, Gov. Legal Entity of Public Law) —
ADDR: Mourouzi Str. 16, Athens 138. **Te:** 724.811. **Studio:** Zappeion Bldg. Athens 118. **Te:** 230.875. **Cable:** Radiostathens. **L.P:** Pres. of the Adm. Council: M. Stavropoulos. Dir. Gen: J. Anastassopoulos. Dir. Tec: V. Aslanides.

STATIONS	kHz	m	kW		kHz	m	kW
Athens (Nat.)	728	412.1	150	Corfu*	1007	298.0	50
Athens (2' Prgr)	1385	216.8	50	Comotini	1403	213.8	5
Athens (3' Prgr)	665	451.2	15	Volos*	1484	202.2	1
Thessaloniki I	791	379.2	50	Rhodos*	1493	200.9	5
Thessaloniki	7290	41.15	35	Patras*	1511	198.5	0.2
Thessaloniki	9710	30.90	35	Chania *	1511	198.5	5
Thessaloniki II	1043	287.6	5	Amalias*	1562	192.1	1.25

HOME SCE: Nat. Prgr: W 04.30-08.05, 10.25-13.45, 15.15-23.00; Sun 04.45-23.00. **N:** W 05.00, 05.45*, 06.00, 07.00, 08.00, 11.00, 11.15*, 12.30, 16.00, 17.00, 17.30**, 18.30, 18.35*, 19.30, 22.00; Sun 05.15, 05.25*, 11.00, 12.15, 17.00, 17.30**, 19.30, 22.00 –*English, French and German. **Newsreel — **Wrp:** W 04.50, 05.58 (English), 06.08, 13.20, 17.58***; Sun 04.50, 05.30 (English), 17.58*** — ***in Greek/English/French.
Nat Music: Mostly at 18.00-19.00. **Rlg (Orthodox):** Sun (approx) 05.35-08.00.
Special Night Prgr on 728kHz: 23.00-04.30 (daily): Various Greek and international music with N. in Greek (3 min's): 00.00, 01.00, 02.00, 03.00, 04.00. **N. in English** 00.30, 02.30. **N. in French** 01.30, 03.30.
Thessaloniki I: 791kHz: 04.30-06.30, 10.15-22.30; 7290kHz: 18.00-18.30; 9710kHz: 11.00-13.00. **N:** 04.55, 05.00, 11.00, 12.30 (W), 15.30 (W), 16.00, 22.00. **Calling Greeks in Europe:** D 20.00-20.30. **"Calling Greeks Overseas":** Sat 21.30-22.00.
Nat. & Reg: Approx. times of tr. as **Nat. Prgr:**
2' Prgr: W 05.00-07.00, 08.00 (Sat 10.30)-13.15, 17.00-21.30; Sun 05.00-21.30. (Light prgr's mainly) — **3' Prgr:** D 17.00-22.00 (serious music only).
N. in English, French and German: 20.00
ANN: (for all mw stations): "Ethnikon Idhryma Radiophonias" (NBI).
Nat. Prgr: "Ethnikon Proghramma". E: "This is R. Athens". F: "Ici R. Athènes". **2' Prgr:** "Dhéfteron Proghramma". **3' Prgr:** "Triton Proghramma".
Reg. Prgr's: Name of Region served as follows: "Radiophonikos Stathmos Macedonias" (for Thessaloniki,) "R. S. Voriodhytikis Elladhos" (for Corfu), "R. S. Thrakis" (for Comotini), "R. S. Dhodhekanissou" (for Rhodos), "R. S. Kritis" (for Chania). Stations Volos, Patras, Amalias are announced "R. S. Volou, Patron, Amaliadhos" individually.
STATION-SIG: Used by all mw'st's of NBI: "Tsopanakos imouna" (Once I was a shepherd boy), a folk song played on native flute and sheep bells.



INT-SIG: "Musical Box" played on vibraphone.
V. by QSL-card or letter. Rp. preferred. Recordings accepted — **PUB:** "Radioproghramma" (weekly in Greek) **F.PL:** Two 100kW sw-tr's + FM netw. — **FI:** By license payments and adv.

FOREIGN SERVICE: Athens — 7.5/5kW(G.C: 23.42E/38.02N): frequencies below are partly used at periods starting 1st Sunday of May, Sept, Nov & March. In case of frequency changes other than specified please try at any of the frequencies below:

kHz	m	kHz	m	kHz	m
5960	50.34	9605	31.20	17745	16.90
6075	49.38	11720	25.60	17780	16.87
6175	48.58	11925	25.15	21485	13.96
7140	42.01	15345	19.55	25645	11.69
7295	41.12	15425	19.44	25965	11.55

Times	Area	3/11-1/3 kHz	2/3-3/5 kHz	N (Greek)
07.00-08.15*	I	9605/11720	9605/11720	07.00
05.50-08.15**	I	9605/11720	9605/11720	
09.00-10.00***	II	9605/11720	9605/11720	
10.30-13.00	I	9605/11720	9605/11720	11.00, 12.30
13.30-15.15	III	7295/11720	9605/11720	13.30
16.30-17.00	I	7295/9605	9605/11720	16.30
17.30-18.00	IV	11720/15345	15345/17745	17.30
18.30-19.00	I	7295/9605	9605/11720	18.30
19.30-21.00	IV	9605/11720	15345/17745	19.30
22.00-22.30	V	9605/11720	11720/15345	22.00
23.00-23.30	V	9605/11720	11720/15345	23.00

*) W only; **) Sun only; ***) not Mon.

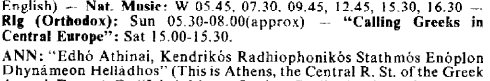
N. in English: 07.10(W), 11.15, 14.10(W), 17.35, 18.35, 19.45, 22.02, 23.02(W) — **N. in French:** 07.15(W), 11.20, 14.15(W), 17.37, 18.38, 19.47, 22.04, 23.04(W) — **N. in German:** 11.25, 18.42. **Messages to Greek Workers in No. We. Europe:** D 20.30-20.45 — **Wrp:** Greek: 07.08(W); English 07.09(W), 13.44; French 07.14(W), 13.49 — **N. in other languages** (W): Turkish 14.20, Serbian 14.30, Albanian 14.40, Rumanian 14.50, Bulgarian 15.00 —

ANN: Gr: "Ethnikon Idhryma Radiophonias, Edho Radiophonikos Stathmos Athinon Vracheon Kymaton" — **INT-SIG:** See Home Sce
V. by QSL-card. Recorded reports preferred — **ALF:** US $ 10.00

FORCES BROADCASTING STATION (Greek) ATHENS (Central).

ADDR: Radhiostathmos Enoplon Dhynameon, 134-Messoghion St, Athens. **Te:** 1779067 — **L.P:** Dir: Lt. Col: E. Georgopoulos. Techn. Mgr: E. Tsamoussis.
STATIONS: 1142kHz 262.7m 20kW — 6045kHz 49.63m 5kW.
HOME SCE: 04.30-23.00 — **N:** 04.45(W), 05.00(Sun), 08.00, 10.00(W), 12.00, 12.15*, 17.00, 19.00, 19.15*, 19.40**, 21.00, 22.55 (* in English & French, ** Newsreel) — **Wrp:** W 04.58, 12.18*, 19.18*, 21.13 (*in English) — **Nat. Music:** W 05.45, 07.30, 09.45, 12.45, 15.30, 16.30 — **Rlg (Orthodox):** Sun 05.30-08.00(approx) — **"Calling Greeks in Central Europe":** Sat 15.00-15.30.

ANN: "Edhó Athinai, Kendrikós Radhiophonikós Stathmós Enóplon Dhynámeon Helladhos" (This is Athens, the Central R. St. of the Greek Armed Forces) F: "Ici Athènes. Station Radiophonique des Forces Armées Helleniques" — **STATION-SIG:** The main motif from the march "Greece never dies" played on trumpets



V. by letter. Recordings accepted.

Stations:	kHz	m	kW		kHz	m	kW
Florina	1300	230.8	1	Larissa	**5955**	50.38	0.4
Joannina	**7155**	41.92	0.25	Serrai	**7161**	41.90	1
Kavalla	1355	221.3	1	Thessaloniki	1169	256.6	10
Kozani	**7215**	41.58	0.5	Tripolis	**6003**	49.97	0.25
Larissa	944	318.05	5				

G.C: Tripolis 22.23E/37.35N; Larissa 22.25E/39.32N; Joannina 20.49E/39.40N; Serrai 23.35E/41.08N; Kozani 21.48E/40.20N.

D.PRGR: W 05.00-07.00, 10.00-13.00, 15.00-21.00; Sun 05.00-13.00, 15.00-21.00 (times are approx) — **FI:** By adv. only.

VOICE OF AMERICA RADIO STATION AT RHODES

ADDR: Voice of America, Washington, D.C. 20547, USA.
STATIONS: Medium Wave: Rhodes A 1259kHz 238m 150kW: 03.00-07.30, 14.00-23.00(Sun 23.15).
03.00-04.00 **English,** 04.00-06.00 Arabic, 06.00-07.30 **English,** 14.00-16.30 **English,** 16.30-17.00 Turkish, 17.00-21.00 Arabic, 21.00-23.00 (Sun 23.15) **English**
Short Waves: Rhodes (G.C. 28.10E/36.15N): 50kW

kHz	m	times	kHz	m	times
6015	49.88	04.00-06.00	7285	41.18	16.00-21.00
		16.00-21.00	11710	25.62	13.00-15.00
7105	42.22	22.00-22.30	11740	25.55	15.00-16.00
7130	42.08	04.00-06.00	15160	19.79	13.00-16.00
7270	41.47	22.00-23.00			

ANN: "This is the Voice of America" is given in the language of the program and in English. **INT-SIG:** Theme of "Columbia, the Gem of the Ocean" — **V.** by QSL-card.

VOICE OF AMERICA RADIO STATION AT THESSALONIKI
ADDR: Voice of America, Washington, D.C. 20547, USA.
STATIONS: Medium Wave: Thessaloniki-A 791kHz 379.2m 50kW: 04.30-06.30 (Sun 10.15), 10.15-22.30 — **Short Wave:** Thessaloniki 35kW (G.C: 22.57E/40.31N): 11.00-23.45 (Sun 24.00).

kHz	m	kHz	m	kHz	m	kHz	m
5995	50.04	7205	41.64	9540	31.45	9660	31.06
7105	42.22	7290	41.15	9640	31.12	11870	25.27

Medium Wave: 04.30-06.30 (daily), 06.30-10.15 (Sun), 10.15-17.00 (daily) Greek (NBI), 17.00-18.30 Rumanian, 18.30-19.30 Serbo Croat, 19.30-20.00 Albanian, 20.00-20.30 Greek (NBI), 20.30-21.30 Bulgarian, 21.30-22.30 Greek (NBI).
Short Wave: See USA.
ANN: "This is the Voice of America" is given in the language of the program and in English — **INT-SIG:** Theme of "Columbia, the Gem of the Ocean" — **V.** by QSL-card.

ARMED FORCES RADIO & TV SCE: see USA.

HOLLAND

L.T: GMT + 1 h — **Pr.L:** Dutch, Frisian.

NEDERLANDSCHE RADIO UNIE
ADDR: P.O. Box 150, Hilversum. **Cable:** Radiounie. **Te:** 02950/48506. **Telex:** 14470
HOME SCE: The Home Sce. is prepared by several broadc. societies under the technical supervision of the NRU. The available time on the three networks is offered to the following societies:
1) Nederlandse Radio Unie (40% of all time).
2) Algemene Vereniging Radio Omroep (**AVRO**), 's-Graveland seweg 52, Hilversum, in connection with the Radio-TV-Nederland (RTN), Honthorststraat 6, Amsterdam, and the Stichting Brabantse Omroep (SBO), Bladel.
3) Katholieke Radio Omroep (KRO), Emmastraat 52, Hilversum.
4) Nederlandse Christelijke Radio Vereniging (NCRV), Schuttersweg 8, Hilversum. (Orthodox-protestant).
5) Omroepvereniging (VARA), Heuvellaan 35, Hilversum. (Socialist).
6) Televisie Radio Omroep Stichting (TROS), Herengracht 543, Amsterdam (neutral).
7) Vrijzinnig Protestantse Radio Omroep (VPRO), 's-Gravelandseweg 63, Hilversum (Liberal Protestant). Church-services and religious prgr's are prepared by:
8) Convent van Kerken (CVK), Melkpad 32, Hilversum. (Protestant).
9) Interkerkelijk Overleg in Radio-Aangelegenheden (IKOR), Borneolaan 27, Hilversum. (Protestant).
10) Rooms Katholiek Kerkgenootschap (RKK). (Roman Catholic).
Further 9 "Mini-Omroepen" have time too as well as the Dutch Government.
BOARD OF THE NEDERLANDSCHE RADIO-UNIE:
Chmn: Dir. A. B. Roosjen. Vice Chmn: J. B. Broeksz. Secr: Drs. Ch. E. v d. Ploeg. Prgr. Affairs: Dr. W. J. A. Wagenaar. Techn. Affairs: Dr. A. H. v. d. Veen. Personnel Affairs: K. de Wilde.
STATIONS: The studios are in Hilversum, but the tr's (owned by the Nederlandsche Omroep Zender Maatschappij) are located at Lopik (near Utrecht):

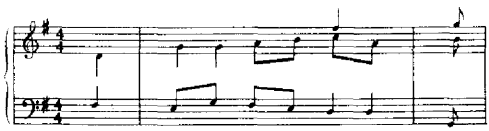
	kHz	m	kW		kHz	m	kW
Lopik I	746	402.1	120	Hengelo II*	1594	188.2	2.5
Lopik II	1007	297.9	120	Hoogezand II*	1594	188.2	2.5
Lopik III	1250	240.0	10	Hulsberg II*	1594	188.2	2.5

*) relay Lopik II (Hilversum II).
FM: (I = relay Lopik I, II = relay Lopik II, III = relay Lopik III).

	ch	MHz	kW		ch	MHz	kW
Goes I	3	87.85	12	Markelo III	38	98.4	50
Goes II	27	95.0	12	Roermond I	4	88.2	100
Goes III	43	99.80	12	Roermond II	13	90.9	100
Hulsberg I	17	92.1	4	Roermond III	25	94.5	100
Hulsberg II	28	95.3	4	Smilde I	16	91.75	50
Hulsberg III	39	98.75	4	Smilde II	26	94.8	50
Ijsselstein I	19	92.6	50	Hoogezand III	35	97.45	15
Ijsselstein II	33	96.8	50	Irnsum III	5	88.6	15
Ijsselstein III	40	98.9	50	Wieringen I	2	87.7	10
Markelo I	15	91.4	50	Wieringen II	9	89.8	10
Markelo II	31	96.2	50	Wieringen III	17	92.2	10

D.PRGR: Hilversum I: W 04.45-04.55, 05.40-23.00; Sun 05.40-05.50, 07.00-23.00. Hilversum II: W 05.40-23.00; Sun 05.40-05.50, 07.00-23.00. Hilversum III: 08.00-17.00 (during the period August-April tr's on 1250kHz terminate earlier).
N: Hilversum I: 06.00 (W), 07.00, 10.00 (W), 12.00, 15.00 (W), 16.50 (Sun), 17.00 (W), 18.30, 21.30, 22.55 — Hilversum II: 06.00 (W), 06.30 (W), 07.00, 07.30 (W), 09.00 (Sun), 10.00 (W), 11.30 (W), 12.00 (Sun), 15.00 (W), 17.30 (W), 18.00 (Sun), 21.30, 22.55 — Hilversum III: hourly 08.00-16.00 — **Agricultural Inf:** Hilversum I: 04.45 (W), 05.40, 11.26 (W); Hilversum II: 05.40, 11.26 (W) — **Rlg. Prgr's** Hilversum I: Sun 09.00 — Hilversum II: 08.00, 16.00.

ANN: "Hier is de AVRO". "Hier is de KRO" etc — **V.** by QSL folder.
INT-SIG: Three first bars from the National Anthem "Wilhemus van Nassau".



Regional Broadcasts

REGIONALE OMROEP NOORD EN OOST (RONO)
Addr: Prinsenhof, Martinikerhof 23, Groningen. **Te:** 050/32841.

Stations:	kHz	m	kW		ch	MHz	kW
Hengelo	1594	188.2	2.5	Irnsum	5	88.6	15
				Hoogezand	35	97.45	15

Stations:	kHz	m	kW		ch	MHz	kW
Hoogezand	1594	188.2	2.5	Markelo	38	98.4	50

D.Prgr: 17.00-19.00 in Dutch dialects; Tues & Fri Friesian Sce. 17.30-19.00 on 88.6MHz. **N:** 17.00 (W).

REGIONALE OMROEP ZUID (ROZ)
Addr: Van Hasseltkade 20, Maastricht. **Te:** 04400/15446.
Stations: Hulsberg 1594kHz 188.2m 2.5kW — Hulsberg ch39 98.75 MHz 4kW — Roermond ch25 94.5MHz 100kW — **D.Prgr:** 18.00-19.00 in Dutch dialects. **N:** 18.00 — **V.** by QSL-folder — **ALF:** Dfl. 24.00.

RADIO NEDERLAND WERELDOMROEP (non-comm.)
ADDR: P.O. Box 222, Hilversum. Office: Witte Kruislaan 55, Hilversum. **Te:** 16151. **Telex:** 11336. **Cable:** Mundivox — **L.P:** Dir. Gen: L. F. Tijmstra. Dep. Dir. Gen: C. J. Strop. Dir's: Prgr. Sce: J. W. Acda. N. Sce: J. Folkertsma. Centr. Prod. Sce: H. J. P. J. van Eijndhoven. Transcription Sce: J. van de Walle. Dir. Tec: V. J. de Grijs. Producer "Happy Station" — prgr: Edward Startz.
STATIONS: Lopik WO1 50kW; WO2/3/4 100kW; WO5 10kW (G.C.: 05.02E/52.01N) — Bonaire Noord (own relaystation), Neth. Antilles: 2 × 300kW sw (G.C: 68.19W/12.13N).

kHz	m	kHz	m	kHz	m	kHz	m
5980	50.17	9715	30.88	11955	25.09	17830	16.83
5985	50.13	9730	30.83	11960	25.08	17840	16.82
6005	49.96	9745	30.79	11970	25.06	17880	16.78
6020	49.83	9755	30.75	15180	19.76	21480	13.97
6025	49.79	11710	25.62	15220	19.71	21505	13.95
6035	49.71	11730	25.58	15320	19.58	21540	13.93
6085	49.30	11755	25.52	15340	19.56	21565	13.91
7110	42.19	11780	25.47	15425	19.45	21570	13.91
7165	41.87	11800	25.42	15445	19.42	21575	13.90
7210	41.61	11820	25.38	17750	16.90	21625	13.87
9525	31.50	11930	25.15	17765	16.89	21665	13.85
9590	31.28	11945	25.12	17810	16.84	25610	11.71
9630	31.15	11950	25.10	17815	16.84	26040	11.52

OPERATION SCHEDULE: I = So. Africa/Europe; II = Middle East; III = No. Africa; IV = Greater Caribbean Area; V = West Indies; VI = No. America; VII = New Zealand; VIII = Australia; IX = Africa/Europe; X = Asia/Australia; XI = M. East/Europe; XII = So. Asia; XIII = So. Asia/Europe; XIV = We. Africa; XV = So. America (So); XVI = So. America (No); XVII = Europe; XVIII = C. America/Mexico; XIX = Spain/No. Africa/Europe; XX = Africa; XXI = So. America/Spain/No. Africa; XXII = So. + C. America; XXIII = E. Africa. Freq's in bold types refer to test transmissions via new relay station "Bonaire Noord" starting end 1968 or beginning 1969 — B = Bonaire; others Lopik.

November—February Schedule.

Language	Areas	kHz (antenna/beam)
Afrikaans		
16.00–16.50(W)	I	21570(162°), 17810(R162°), 6020(nd).
Arabic		
14.30–15.50(D)	II	21570(R123°), 15425(G82°)
17.30–18.50(D)	III	11730(G123°), 9715(G195°)
Dutch		
01.10–01.30(D)	IV	**B6085**(nd), B800(nd)
02.30–03.50(D)	VI	**B11730**(G320/350°), B9590(C335°)
06.00–7.20(Sun)	VII	11730(G235°), 9525(G235°)
06.00–07.20(W)	VII	11730(G235°), 9715(R230°), 9525(G235°)
08.30–09.50(Sun)	VIII	11730(G255°), 9715(G262°)
08.30–09.50(W)	VIII	15180(G250°), 11730(G255°), 9715(G262°)
09.00–10.20(Sun)	IX	21480(R162°), 15180(R162°), 6020(nd)
10.00–11.20(Sun)	X	25610(R81°), 21570(R83°)
11.30–11.50(W)	XI	25610(R123°), 21480(R118°)
11.30–12.50(D)	XII	21570(R50°), 15425(G82°)
13.00–14.20(D)	XIII	21570(R81°), 15425(G95°), 6020(nd)
15.30–15.50**	II/XXIII	25610(R123°), 17810(G105°)
16.00–16.20**	XXIV	25610(R162°), 21505(R162°)
16.30–16.50(D)	V	25610(R261°), 21505(R263°)
17.30–18.50(D)	IX	21575(R162°), 15220(G158°), 6020(nd)
19.00–19.20(Sun)	V	21575(R261°), 17810(G265°)
20.00–21.20(D)	XIV	**B17810**(G80°), B15220(C87°)
20.30–21.50(Sun)	VI	11730(G303°), 9715(G300°)
22.00–23.20(D)	XVI	15425(G235°), 11730(G235°)
23.30–01.00(Sun)	V	15425(G265°), 11730(G272°), 9715(G262°), 6020(G260°)
23.30–01.20(W)	V	15425(G265°), 11730(G272°)
English		
00.20–01.10(W)	IV	**B6085**(nd), B800(nd)
01.30–02.20(D)	VI	B11730(C335°), **B9590**(G350°)
07.30–08.20(W)	VII/VIII	11730(G255°), 9715(R230°), 9525(G235°)
14.30–15.20(W)	XIII	21480(R83°), 17810(G85°)
14.30–14.45*	VI	21570(R298°)
15.30–15.45*	VI	25610(R303°), 17810(R298°)
17.00–17.15*	VI	21570(R303°), 17810(R298°)

MOSAIC OF SOUND

'Speech is civilization itself... it is silence which isolates'.
(Thomas Mann)

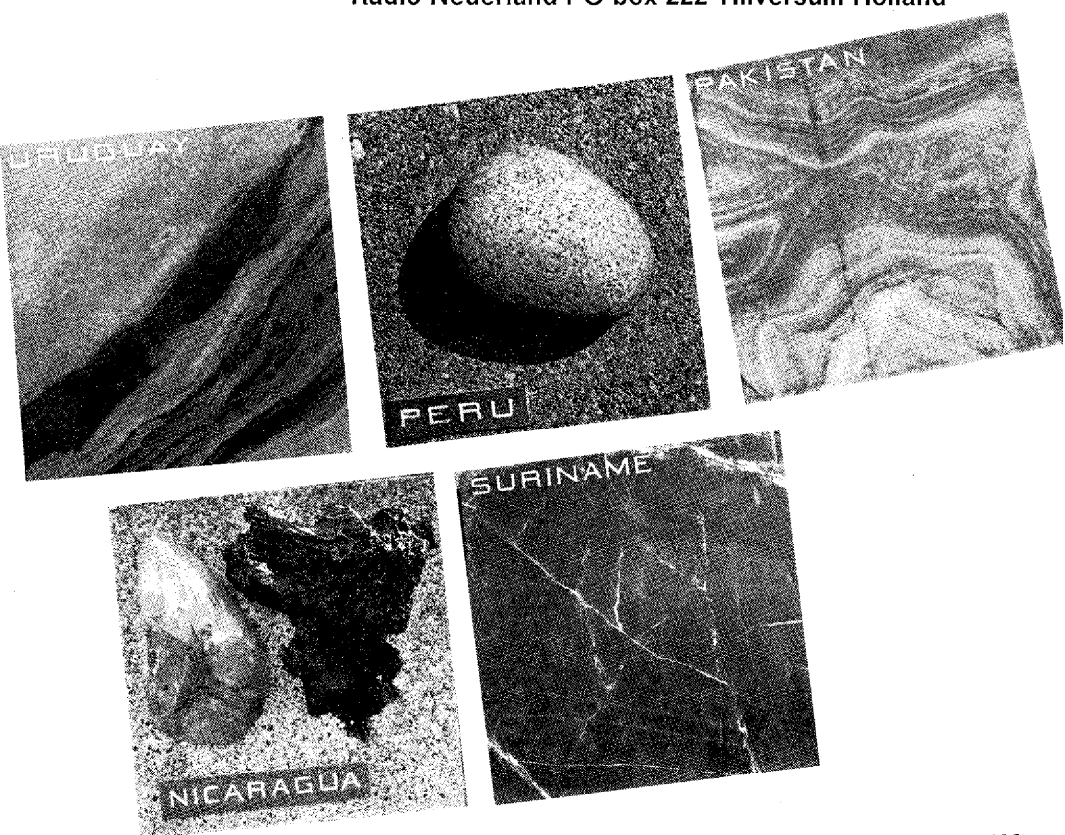
Seventy countries contributed the elements of natural stone in the unique tableau facing Radio Nederland's studio building in Hilversum.

Its mosaic arrangement is symbolic of world friendship, an ideal that finds further expression in the mosaic of sound produced in Radio Nederland's studios.

Communication (the modern word for speech) has more meanings than the dictionary specifies.
You will discover them all in Radio Nederland's transmissions.

RN

Radio Nederland PO box 222 Hilversum Holland



Holland

English	Areas	kHz (antenna/beam)
19.00–19.50(W)	IX	15220(G158°), 11730(G158°), 6020(nd)
20.00–20.50(W)	XVII	6085(R261°), 6020(R303°)
20.35–20.50(*)	VI	11730(G303°), 9715(G300°)
21.00–21.50(W)	VI	11730(G303°), 9715(G300°)
21.30–22.20(D)	XIV	B15220(C87°)
21.30–22.20(D)	XIX	**B17810**(G50°)
Indonesian		
12.00–13.00(D)	XIII	21480(R55°), 17810(G55°), 6020(nd)
13.15–14.15(D)	XII	21480(R83°), 17810(G85°)
Spanish		
00.30–01.20(W)	XVI	9715(G262°), 6020(G260°)
04.00–04.50(D)	XVIII	**B11730**(G290°), B9590(C285°)
16.00–16.15(*)	XV	25610(R235°), 21505(R230°)
17.05–17.20(*)	XVI	25610(R261°), 21505(R263°)
19.45–20.00(*)	XVI	21575(R263°), 17810(G265°)
20.10–20.25(*)	XV	21575(R230°), 17810(G235°)
21.30–22.20(W)	XIX	6085(R205°), 6025(G195°)
22.30–22.45(*)	XV	15320(G235°), 9715(R230°)
22.30–23.20(D)	XV	**B15320**(G170°), B15220(C170°)
23.30–00.20(W)	IV	**B6085**(nd), B800(nd)
News in various languages		
16.30–17.20(W)	V	25610(R261°), 21505(R263°)
19.00–20.05(W)	V	21575(R263°), 17810(R265°)
21.00–21.20(W)	V	15425(G265°), 15180(G262°)
23.10–00.05(W)	V	9715(G262°), 6020(G260°)
01.30–02.00(W)	V	11945(G272°), 9715(G262°), 6085(G260°)
Happy Station (English version)		
06.00–07.20(Sun)	VII	9715(R230°), 6020(G235°)
07.30–08.50(Sun)	VIII	11945(G262°), 9525(G255°)
10.30–11.50(Sun)	XVII	9715(R261°), 5980(R303°), 6020(nd)
14.30–15.50(Sun)	XIII	21480(R83°), 17810(G85°), 6020(nd)
16.00–17.20(Sun)	XX	21570(R162°), 17810(R162°)
19.00–20.20(Sun)	VI/XVII	15425(G290°), 11730(G303°), 6020(nd)
Happy Station (Spanish version)		
20.30–21.50(Sun)	XXI	15425(G235°), 6085(G195°), 6020(nd)
22.00–23.20(Sun)	XXII	15320(G262°), 9715(G262°), 6020(nd)
Happy Station (English/Spanish version)		
23.30–01.10(Sun)	IV	**B6085**(nd), B800(nd)

March—April Schedule.

Language	Areas	kHz (antenna/beam)
Afrikaans		
16.00–16.50(W)	I	21570(162°), 17810(R162°), 6020(nd)
Arabic		
14.30–15.50(D)	II	21570(R123°), 15425(G82°)
17.30–18.50(D)	III	11730(G163°), 9715(G195°)
Dutch		
01.10–01.30(D)	IV	**B6085**(nd), B800(nd)
02.30–03.50(D)	VI	**B11730**(G320/350°), B9590(C335°)
06.00–07.20(Sun)	VII	11730(G235°), 9715(R230°), **B11730**(G230°), **B9715**(G230°)
06.00–07.20(W)	VII	11730(G235°), 9715(R230°), **B11730**(G230°), **B9715**(G230°)
08.30–09.50(Sun)	VIII	11730(G255°), 9715(G262°) **B11730**(G230°), **B9715**(G230°)
08.30–09.50(W)	VIII	11730(G255°), 9715(G262°), **B11730**(G230°), **B9715**(G230°)
09.00–10.20(Sun)	IX	21480(R162°), 15180(R162°), 6020(nd)
10.00–11.20(Sun)	X	25610(R81°), 21570(R83°)
11.30–11.50(W)	XI	25610(R123°), 21480(R118°)
11.30–12.50(D)	XII	21570(R50°), 15425(G82°)
13.00–14.20(D)	XIII	21570(R81°), 15425(G95°), 6020(nd)
15.30–15.50(**)	II/XXIII	25610(R123°), 17810(G105°)
16.00–16.20(**)	XXIV	25610(R162°), 21505(R162°)
16.30–16.50(D)	V	25610(R261°), 21505(R263°)
17.30–18.50(D)	IX	21575(R162°), 15220(G158°), 6020(nd)
19.00–19.20(Sun)	V	25610(R261°), 21575(R263°)
20.00–21.20(D)	XIV	B17810(G80°), B15220(C87°)
20.30–21.50(Sun)	VI	15425(G289°), 11730(G303°)
22.00–23.20(D)	XVI	15425(G235°), 11730(G235°)
23.30–01.00(Sun)	V	15425(G265°), 11730(G272°), 9715(G262°), 6020(G260°)
23.30–01.20(W)	V	15425(G265°), 11730(G272°)
English		
00.20–01.10(W)	IV	**B6085**(nd), B800(nd)
01.30–02.20(D)	VI	B11730(G350°), **B9590**(G350°)
05.00–05.50(D)	VI	**B11730**(G320°), B9590(G320°)
07.30–08.20(W)	VII/VIII	11730(G255°), 9715(R230°), **B11730**(G230°), **B9715**(R230°)
14.30–15.20(W)	XIII	21480(R83°), 17810(G85°)
15.30–15.45(*)	VI	25610(R303°), 17810(R298°)
17.00–17.15(*)	VI	21570(R303°), 17810(R298°)
19.00–19.50(W)	IX	**B15220**(G110°), 11730(G158°), 6020(nd)
20.00–20.50(W)	XVII	11730(R261°), 6020(R303°)
20.35–20.50(*)	VI	21575(R303°), 15425(G290°)
21.00–21.50(W)	VI	15425(G290°), 11730(G303°)
21.30–22.20(D)	XIV	B15220(G80°)
21.30–22.20(D)	XIX	B17810(G50°)
Indonesian		
12.00–13.00(D)	XIII	21480(R55°), 17810(G55°), 6020(nd)
13.15–14.15(D)	XII	21480(R83°), 17810(G85°)
Spanish		
00.30–01.20(W)	XVI	9715(G262°), 6020(G260°)
04.00–04.50(D)	XVIII	**B11730**(G290°), B9590(G290°)
16.00–16.15(*)	XV	25610(R235°), 21505(R230°)
17.05–17.20(*)	XVI	25610(R261°), 21505(R263°)
19.45–20.00(*)	XVI	25610(R261°), 21575(R263°)
20.10–20.25(*)	XV	25610(235°), 21575(R230°)
21.30–22.20(W)	XIX	9715(G195°), 6025(G195°)
21.30–22.20(D)	XIX	**B17810**(G50°)
22.30–22.45(*)	XV	17880(G235°), 15320(G235°)
22.30–23.20(D)	XV	**B15320**(G170°), B15220(G170°)
23.30–00.20(W)	IV	**B6085**(nd), B800(nd)
News in various Languages		
16.30–17.20(W)	V	25610(R261°), 21505(R263°)
19.00–20.05(W)	V	25610(R261°), 21575(R263°)
21.00–21.20(W)	V	21575(R263°), 21505(R261°)
23.10–00.05(W)	V	17880(G265°), 6020(G260°)
01.30–02.00(W)	V	15425(G262°), 11945(G272°), 9715(G262°), 6020(G260°)
Happy Station (English version)		
06.00–07.20(Sun)	VII	9525(G235°), 6020(G235°)
07.30–08.50(Sun)	VIII	11945(G262°), 9525(G255°)
10.30–11.50(Sun)	XVII	9715(R261°), 5980(R303°), 6020(nd)
14.30–15.50(Sun)	XIII	21480(R83°), 17810(G85°), 6020(nd)
16.00–17.20(Sun)	XX	21570(R162°), 17810(R162°)
19.00–20.20(Sun)	VI/XVII	15425(G290°), 11730(G303°), 6020(nd)
Happy Station (Spanish version)		
20.30–21.50(Sun)	XXI	21575(R230°), 9715(G195°), 6020(nd)
22.00–23.20(Sun)	XXII	17880(G265°), 9715(G262°), 6020(nd)
Happy Station (English/Spanish version)		
23.30–01.10(Sun)	IV	**B6085**(nd), B800(nd)

G = Curtain antenna; R = Rhombic antenna; C = Corner reflector antenna; nd = omnidirectional antenna; (*) Tues and Fri only; (**) Mon, Wed, Thurs and Sat only.

PROGRAMME SCHEDULE

THE AMSTERDAM CONCERTGEBOUW ORCHESTRA: In Dutch: Thurs 06.25, 08.55, 11.55, 13.25, 17.55, 20.25, 23.55, Fri 02.55; **Indonesian:** Sun 12.10, 13.25.

PRGRS OF DUTCH MUSIC: Afrikaans: Mon 16.15; **Arabic:** Tues 15.35, 18.35, Wed 14.48, 17.48, Thurs 14.47, 17.47; **English:** Sun 21.30, Mon 01.30; **Spanish:** Sun 22.30, Mon 04.00, Thurs 22.45, Fri 00.45, 04.15.

NEWS, COMM: Afrikaans: W 16.00; **Arabic:** D 15.00, 18.00; **Dutch:** D 06.00, 08.30, 11.30, 13.00, 15.30, 16.00, 16.30, 17.30, 20.00, 22.00, 23.30, 01.10, 02.30; **English:** W 07.30, 14.30, 19.00, 20.00, 21.00, 21.30, 00.20, 01.30; **Indonesian:** D 12.00, 13.15; **Spanish:** W 21.30, 22.30, 23.30, 00.30, 01.30, 04.00.

LISTENERS REQUEST PRGRS: Afrikaans: Sat 16.10; **Arabic:** Sun & Fri 15.10, 18.10; **Dutch:** Tues 06.25, 08.55, 11.55, 13.25, 17.55, 20.25, 22.25, 23.55, Wed 02.55; **English:** Tues 07.42, 14.42, 19.12, 20.12, 21.12, 21.42, Wed 01.42; **Indonesian:** 2nd, 4th, 5th Tues 12.23, 13.38, Sat 12.22, 13.37; **Spanish:** Mon and Fri 22.40, 23.40; Tues, Sat 00.40, 04.10, Fri 21.40.

DX-PROGRAMMES: English: Thurs 07.42, 14.42, 19.12, 20.12, 21.12, 21.42, Fri 01.42.

MAILBAG: Afrikaans: Wed 16.15; **Arabic:** Sun & Fri 15.10, 18.10; **Dutch:** Sat 06.20, 08.50, 11.50, 13.20, 18.50, 20.20, 22.20, 23.50, Sun 02.50; **English:** 2nd Fri 08.03, 15.03, 19.33, 20.33, 21.33, 22.03, 2nd Sat 00.53, 02.03. **Indonesian:** Sun 12.35, 13.50; **Spanish:** Mon and Fri 22.40, 23.40; Sun, Sat 00.40, 04.10, Fri 21.40.

LANGUAGE COURSES: The courses Dutch by Radio and Holandés por Radio will start again in May 1969. Write for full details and free textbook.

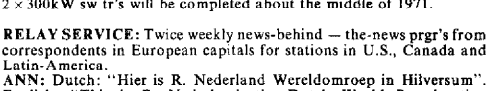
PRODUCTION "HAPPY STATION": The Happy Station Sun prgrs 6 in English and 2 in Spanish on sw and 1 in Spanish, Portuguese and English on mw. Producer Edward Startz, now on the air for more than 40 years, brings a wide range of music for all tastes, short features, descriptive commentaries and educational quizzes. Each tr carries a mailbag, calling to all parts of the world. The "Happy Station" prgrs every Sun (for freq's see operation schedule).

F.PL: A new program schedule will become effective as from May, 1969. The duration of the programs will be increased to 80 minutes each, and include French language programs to Central and West Africa. The new programme schedule will be published in WRTH's 1969 Summer Edition—A 2nd relay station is planned in Madagascar: 2 × 300kW sw tr's will be completed about the middle of 1971.

RELAY SERVICE: Twice weekly news-behind — the-news prgr's from correspondents in European capitals for stations in U.S., Canada and Latin-America.

ANN: Dutch: "Hier is R. Nederland Wereldomroep in Hilversum". English; "This is R. Nederland, the Dutch World Broadcasting System". Indonesian: "Disini Hilversum Siaran Indonesia R. Nederland". Spanish: "Aqui R. Nederland, Hilversum, Holanda". Arabic: "Idha'atu'l holanda'l Arabiya fi Hilversum". Afrikaans: "Dit is R. Nederland Wereldomroep in Hilversum, Holland".

GENERAL INT-SIG: Old Dutch folk-song: "Merk toch hoe sterck", played on carrillon or celeste—**V.** by QSL-card.



PUB: Prgr. Sched in Dutch, English, Spanish, Arabic, Afrikaans, Indonesian. A booklet on sw aerial construction and aerial filter construction in Dutch, English, Spanish, Indonesian and Arabic. Various data-sheets in English to help the DXer and short wave listener to improve reception, or to extend the scope of the receiver. All pub. free of charge on application. Ask for DX information service catalog.

TRANSCRIPTION SERVICE: a free sce. to foreign st's issues complete prgrs about Holland and Dutch life both informative and musical, and tailored to the requirements of the areas served—**FI:** by license payments.

RADIO BLOEMENDAAL (Rlg).
(Operated by Geref. Kerk van Bloemendaal)
ADDR: Vijverveg 14, Postbus 26, Bloemendaal. **Te:** 02500 50471.
L.P: Dir's: Mr. & Mrs. J. Kerkvliet.
STATION: 1223kHz 245.3m 0.05kW.
D.PRGR: Sun and Christian Holidays 08.00-12.00, 14.15-16.00 (Religious service and religious music only) — **V.** by QSL-card.

AMERICAN FORCES NETWORK (U.S. Army)
ADDR: see AFN Germany —
STATIONS: Brunssum 89.15MHz 75W, Soesterberg 93.1MHz 20W, Maastricht 93.4MHz 75W.
D.PRGR: relay of AFN, Germany, for NATO forces in Heerlen (Limburg) and for American Air Force in Camp in New Amsterdam — **V.** by QSL-card.

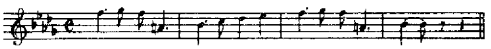
HUNGARY

L.T: GMT + 1 h — **Pr.L:** Hungarian

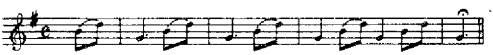
MAGYAR RADIO ES TELEVIZIO (Gov.)
ADDR: Brody Sandor 5-7, Budapest VIII **Cable:** Magyarradio **Te:** 338 **Telex:** 6-67 — **L.P:** Pres. & Gen. Mgr: I. Tömpe. Vice Pres.: Dr. I. Hárs, Dr. K. Kiss. Dir. Adm: L. Fazekas. Dir. Tec: R. Kerpel. Dir. For. Rel: G. Lénárt.

HOME SCE:	kHz	m	kW	HOME SCE:	kHz	m	kW
Kossuth,				Szombathely[2]	1340	223.8	25
Budapest[1]	539	556.5	135	Pécs[2]	1340	223.8	25
Petöfi II				Györ[2]	1349	223.3	0.4
Budapest[2]	872	344.0	36	Sznolnok[2]	1349	223.3	0.4
Petöfi I				Miskolc[2]	1594	188.2	15
Szolnok[2]	1187	252.7	135	Magyaróvár[2]	1594	188.2	0.4
Balatonszabadi	1250	240	135	Balatonzabadi[2]	1594	188.2	15
Nyiregyhaza[2]	1340	223.8	25				

[1]) W 03.30-00.30; Sun 05.00-00.30 — [2]) W 04.00-07.10, 13.00-22.15; Sun: 05.30-22.15. Reg St's: rel. R. Petöfi exc. for reg. prgr's at 18.00-19.00 (Pécs 17.00-20.00, Györ 19.00-20.00, Sun also 09.00-10.00).
R. Kossuth: N, Wrp: W 03.30, 04.30, 06.00, 09.00, 11.00, 14.00, 16.00, 19.00, 21.00, 23.00; Sun 05.00, 07.00, 11.00, 16.00, 19.00, 21.00, 23.00.
R. Petöfi: N: W 05.00, 07.00, 15.00, 17.00, 18.00, 20.00, 22.00; Sun 22.00. **FM:** Budapest 66.62MHz 2kW — Pécs 69.02MHz, 2kW: 17.00-21.00.
German (for German Minority): D 17.30-18.00 on 1340kHz (Pécs).
INTERVAL-SIGNAL: R. Kossuth: Played on 3 clarinets and 1 bass clarinet.



R. Petöfi: 3 flutes, 2 violins, 1 cello, 1 doublebass.



ANN: "Kossuth Radio, Budapest — Petöfi Radio, Budapest".

FOREIGN SERVICE
STATIONS (G.C: 18.24E/47.10N) 5/15/100/135kW.

kHz	m	kHz	m	kHz	m	kHz	m
539	556.5	7100	42.25	11910	25.19	21665	13.85
1250	240.0	7220	41.55	15160	19.79	21685	13.85
3995	75.09	9755	30.75	17795	16.86		
6234	48.10	9833	30.51	17890	16.77		

Schedule: 3/11 68 — 1/3 69

TO EUROPE

English	kHz
21.30-22.30	6234, 7100, 7220, 9833, 11910
23.30-24.00	539, 3995, 6234
Esperanto	
19.30-19.45	1250, 3995, 6234, 7100, 9833, 11910, 17795, 17890, 21665, 21685
German	
17.00-18.00 (to Austria)	1250
17.30-18.00	6234, 7100, 9833, 11910, 15160, 17795, 17890, 21665, 21685
19.45-20.00	1250, 3995, 6234, 7100, 9833, 11910, 17795, 17890, 21665, 21685
09.00-10.00*	1250, 6234, 7100, 11910
13.30-14.00*	1250, 6234, 7100, 9755, 11910, 15160, 17795, 17890, 21665, 21685
13.30-14.00***	6234, 7100, 9755, 11910, 15160, 17795, 17890, 21665, 21685
13.10-14.00**	1250, 6234, 7100, 9833, 11910, 15160, 17795, 17890, 21665, 21685
23.00-23.30**	1250, 3995, 6234
Greek	
11.45-12.00(W)	9833, 11910, 15160, 17795, 17890, 21665, 21685
17.00-17.30	6234, 7100, 9833, 11910, 15160, 17795, 17890, 21665, 21685
20.00-20.15	1250, 3995, 6234, 7100, 9833, 11910, 17795, 17890, 21685, 21665
08.00-08.45*	6234, 7100, 9833, 11910
12.00-13.00*	6234, 7100, 9755, 11910, 15160, 17795, 17890, 21665, 21685
15.00-16.00**	7100, 9755, 11910, 15160, 17795, 17890, 21665, 21685
Hungarian	**kHz**
19.00-19.30	1250, 7100, 9833, 11910, 15160, 17795, 17890, 3995, 6234, 21665, 21685
20.30-21.30	1250, 3995, 7100, 7220, 9833, 11910, 17795, 6234, 17890
14.00-16.00*	1250, 7100, 9755, 11910, 15160, 17795, 17890, 6234, 21665, 21685
05.00-05.15 a	3995, 9755, 11910, 9833, 17795, 17890, 6234, 21665, 21685
11.00-11.15 a(W)	9833, 11910, 15160, 17795, 17890, 21665, 21685
Italian	
11.30-11.45(W)	9833, 11910, 15160, 17795, 17890, 21665, 21685
18.00-18.30	1250, 7100, 9833, 11910, 15160, 17795, 17890, 6234, 21665, 21685
20.15-20.30	1250, 3995, 7100, 6234
13.00-13.30*	7100, 9755, 11910, 15160, 17795, 17890, 21665, 6234, 21685
Spanish	
18.30-19.00	9833, 11910, 15160
20.15-20.30	9833, 11910
21.30-22.00	9833

TO NEAR EAST

Turkish	kHz
16.30-17.00	1250, 7100, 9833, 11910, 15160, 17795, 17890, 6234, 21665, 21685
18.30-19.00	1250, 9833, 17795, 17890, 21665, 21685, 7100
10.00-12.00*	9755, 11910, 15160, 17795, 17890, 21665, 21685

TO FAR EAST

English	kHz
08.00-08.15***	11910, 15160, 17795, 17890, 21665, 21685
10.15-10.30(Fri)	11910, 15160, 17795, 17890, 21665, 21685

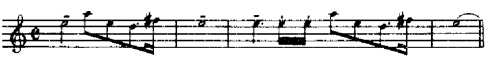
TO NORTH AMERICA

English	kHz
00.30-01.30	9755, 9833, 11910, 15160, 6234
03.00-04.00	9755, 9833, 11910, 6234
04.30-05.00	9755, 9833, 11910, 6234
Hungarian	
00.00-00.30	9833, 11910, 15160, 9755, 6234
02.00-03.00	9755, 9833, 11910, 6234
04.00-04.30	9755, 9833, 11910, 6234

TO LATIN AMERICA

Hungarian	kHz
23.00-23.30	9833, 11910, 15160
Spanish	
23.30-24.00	9833, 11910, 15160
01.30-02.00	9755, 9833, 11910, 15160, 6234

*) Sun. only; **) Sat. only; ***) Wed. only; a) Home News from R. Kossuth.
DX-PRGR: English: Tues, Sat 21.30; Wed, Sun 00.30, 03.00; Wed 08.00, Fri 10.15. **German:** Wed (twice monthly) 13.30 (repeated Sat 23.00): 2nd and 4th Fri 17.00 (to Austria).
Italian: 2nd and 4th Thurs 20.15.
ANN: E: "This is Budapest, Hungary".
INT-SIG: Excerts from the Suite "1848" by T. K. Polgar (played on 3 trumpets, 2 cornets)



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ICELAND

L.T: GMT − 1 h (Su: GMT) — **Pr.L:** Icelandic.

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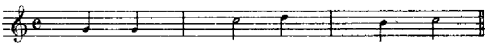
RIKISUTVARPID (Gov.)

ADDR: P.O. Box 120, Reykjavik. **Cable:** Utvarp — **L.P:** Dir. Gen: A. Björnsson. Dir. Prgr. Council: B. Gröndal. Dir. Adm: G. Vagnsson. Dir. Sound Radio: G. Jónsson. Dir. N: I. Gudmundsson.
HOME SCE: Mon-Fri 07.00-23.30, Sat 07.00-24.00, Sun 08.30-23.30.

STATIONS:	kHz	m	kW/W		kHz	m	kW/W
Reykjavik	209	1435	100	Húsavik	1412	212.4	20W
Eidar	209	1435	20	Siglufjördur	1412	212.4	20W
Höfn	665	451.2	5	Raufarhöfn	1484	202.2	20W
Akureyri	737	407.1	5	Skúlagardur	1484	202.2	20W
Alftafjördur	1133	264.8	20W	Hellissandur	1489	201.4	20W
Lón	1412	212.4	20W	Törshöfn	1510	198.5	20W
Djúpivogur	1412	212.4	20W	Kópasker	1510	198.5	20W

F.M.	MHz	kW/W		MHz	kW/W
Vestmannaeyjar	89.1	0.2	Reykjavik	94.0	0.9
Olafsvik	90.3	0.02	Reykjavik	98.0	0.03
Neskaupstadur	91.0	0.03	Vik	98.0	5W
Raufarhöfn	91.0	0.03	Hellissandur	98.4	0.02
Skagafjördur	91.5	0.2			

N: W 08.30, 12.25, 16.00, 17.00, 19.00, 22.00. Sun 08.55, 12.35, 19.00, 22.00 — **ANN:** "Utvarp Reykjavik" — **INT-SIG:** Home Service.



V. by QSL-card. Rp — **ALF:** kr. 820.00.

IRELAND

L.T: GMT + 1 h — **Pr.L:** Irish, English.

RADIO TELEFIS EIREANN (Statutory Corporation)

ADDR: Henry St, Dublin 1. **Tel:** 42981. **Telex:** 5268. **Cable:** Broadcasting — **L.P:** Chmn: Dr. C. S. Andrews. Dir. Gen: T. P. Hardiman. Contr. of Prgrs (radio): R. O. Faracháin. Dir. of Eng: G. T. Waters. Head of N: J. P. McGuinness. Adv. Sales Contr: R. K. Gahan.

STATIONS:	kHz	m	kW		kHz	m	kW
Athlone	566	530	100	Cork	1250	240	10
Dublin	1250	240	5				

FM (all 100kW):
Kippure 95.3MHz, Truskmore 89.7MHz, Maghera 94.1MHz, Mullaghanish 93.5MHz, Mt. Leinster 94.9MHz.
HOME SCE: W 06.00-23.00 (Sat 23.30), Sun 07.00-23.00. **N:English** 06.00 (W), 07.00, 08.00, 09.00 (Sun), 12.30, 17.30, 20.00, 23.00. **Irish:** 16.55, 19.50 (W) — **Wrp:** 06.55 (W) and at end of N — **Irish Music** 19.30 (Tues), 19.30 (Wed), 15.31 (Fri).
ANN: "R. Telefis Eireann" — **INT-SIG:** Celeste and Harp playing 4 bars of Irish air "O'Donnell Abu" — **V.** by letter — **PUB:** RTE Guide — **FI:** By license payments and adv — **AD:** 75 h per week — **ALF:** £1-5-0.

ITALY

L.T: GMT + 1 h (Su: GMT + 2 h) — **Pr.L:** Italian.

RAI—RADIOTELEVISIONE ITALIANA

(State Service by public act to RAI)
ADDR: Viale Mazzini 14, 00195 Roma. **Te:** 38781. **Cable:** Raidirro. **Telex:** 61142 — **L.P:** Pres: P. Quaroni. Vice Pres: Dr. L. Paolicchi; I de Feo. Man. Dir: Dr. G. Granzotto. Dir. Gen: Dr. E. Bernabei. Vice Dir. Gen: Dr. M. Bernardi. Dir. For Rel: Dr. G. Zaffrani. Dir. Adm: Dr. B. Vasari. Dir. Prgr: Dr. L. Piccioni. Dir. Radio & TV Inf. Sce's: Dr. A. Manusardi. Dir. Tec: Eng. G. Orsini. Dir. Gen. Aff: Dr. A. Passante. Dir. Secretariat Div: Dr. G. Pozzilli. Chief Pers: Dr. G. Bodo. Dir. "Radiocorriere": Dr. Ugo Zatterin.

HOME SERVICES

NATIONAL PRGR: 05.05-23.00 (Mon 05.30-23.00).
566kHz: Bologna I (25kW), Caltanisetta I (25), Salento I (5).
656kHz: Bolzano I (25kW), Firenze I (100), Napoli I (100), Torino I (35), Venezia I (25).
899kHz: Milano I (150kW).
1061kHz: Cagliari I (10kW), Catania I (2), Livorno I (1), Trento I (1), Udine I (2), Verona I (2).
1331kHz: Aosta I (2kW), Bari I (25), Palermo I (12.5), Pescara I (25), Roma I (150).
1578kHz: Ancona I (2kW), Brindisi I (0.1), Campobasso I (1), Carrara I (0.1), Catanzaro I (1), Cosenza I (1), Foggia I (1), Genova I (50), Gorizia I (0.1), L'Aquila I (0.1), La Spezia I (1), Lecce I (1), Matera I (1), Nuoro I (1), Perugia I (1kW), Potenza I (1), Reggio Calabria I (2kW), Sassari I (2), Taranto I (1), Terni I (0.1).
N: 06.00 (W), 07.00, 09.00 (W), 12.00, 14.00 (W), 16.00 (W), 19.00, 22.00 — **Prgr. preview:** 21.45 (Sun), 22.45 (D) — **LL:** English 17.00 (W) — **Rlg. Prgr:** Sun 06.40 (Evangelistic), 08.30 (Mass from R. Vaticana) — **Tourist Prgr:** Tues-Sat 05.05-05.30 — **Reg. Sce's:** W 13.00-13.37.

SECOND PRGR: 05.00-23.05.
845kHz: Roma II (150kW).
1034kHz: Caltanisetta II (1kW), Genova II (10), Milano II (50), Napoli II (25), Pescara II (6), Potenza II (1), Venezia II (25).
1115kHz: Aosta II (2kW), Bari II (50), Bologna II (60), Pisa II (25), Trieste II (6).
1223kHz: Messina II (5kW).
1430kHz: Foggia II (1kW), Pesaro II (2), Taranto II (1).
1448kHz: Agrigento II (2kW), Alessandria II (0.1), Ascoli Piceno II (0.1), Belluno II (0.1), Benevento II (0.1), Biella II (0.1), Bressanone II (0.1), Brunico II (1), Cagliari II (1), Catania II (5), Como II (1), Cortina II (1), Cuneo II (0.1), La Spezia II (1), Merano II (1), Palermo II (12.5), Perugia II (1), Salerno II (0.1), Sassari II (5), Siena II (0.1), Sondrio II (1), Squinzano II (50), Torino II (25), Trento II (1), Udine II (2), Verona II (2).
1484kHz: Arezzo II (0.1kW), Avellino II (1), Bolzano II (2), Brindisi II (0.1), Cosenza II (1), Gorizia II (0.1), L'Aquila II (1), Lecce II (1), Nuoro II (1), Savona II (0.1), Teramo II (0.1), Terni II (0.1), Vicenza II (0.1).
N: 05.30 (W), 06.30, 07.30, 08.30, 09.30, 10.30, 11.15 (W), 12.30, 13.30 (W), 15.30 (W), 16.00 (Sun), 16.30 (W), 17.30 (W), 18.30, 21.00, 23.00 — **Maritime Wrp:** 05.25, 15.55 (W), 17.40 (Sun), 20.55 — **Reg. Sce's:** 11.20-12.00 (W), 11.30-12.00 (Sun), 13.00-13.30 (Sun).

THIRD PRGR: 08.25-09.00 (D exc. Tues, Wed, Sat): Special cultural prgr's: D 09.00-22.30 (approx).
1367kHz: Bari III (1kW), Catania III (2), Firenze III (2), Genova III (10), Messina III (2), Milano III (10), Napoli III (12.5), Palermo III (2), Pisa III (2), Roma III (6), Sassari III (2), Torino III (5), Trento III (0.1), Venezia III (25).
1594kHz: Bologna III (1kW), Bolzano III (2), Bressanone III (0.1), Brunico III (1), Cagliari III (1), Livorno III (1), Merano III (1), Trieste III (2), Verona III (2).
N: 17.00 (W), 21.00.

RADIO TRIESTE

On 980kHz (10kW): **In Slovene:** W 06.00-07.30, 10.30-13.45, 16.00-22.30; Sun 07.00-22.30. **N:** 06.15 (W), 07.15, 10.30 (W), 12.15, 13.15, 16.15 (W), 19.15, 22.15 — **LL (Italian):** 16.20 (Tues, Thurs).
On 818kHz (25kW): Relay National Prgr + Reg. Prgr's.
REG PRGR'S: 06.15-06.30, 11.05 (Sun 08.30)-12.00, 12.15-14.18 (W), 18.30-19.00.
Special Reg. Sce's: In Italian: Bolzano on 656/1331kHz: 13.00-13.16 (Sun 13.30). On 1367/1594kHz: 18.45 (Sun 18.30)-19.30.
Pescara/Campobasso: 06.30-06.50. **Cagliari:** 07.30-08.00 (Sun), 11.00-12.00, 18.30-19.00. **Caltanisetta:** 06.30-07.00 (W), 18.30-19.00. **Venezia:** 13.00-15.30 (Sun 14.30).
In other languages: German (Bolzano, Bressanone, Brunico, Merano on 1594 + FM): W 06.00-07.00, 08.30-11.30, 12.00-13.00, 16.00-18.15 (Mon/Thurs 16.00-17.15, 17.45-18.15), 18.30-22.00; Sun 07.00-11.30, 12.00-14.00, 15.00-18.15, 18.30-22.00. **N:** 06.15 (W), 08.30, 11.10 (Sun), 12.15, 16.00 (W), 18.45 — **Mass** (Sun): 09.00.
Ladino (Bolzano 656kHz, Trento 1331kHz + FM) for Dolomites: 13.16-13.36 (Mon-Fri), 13.20-13.40 (Sat); 17.15-17.45 (Mon/Thurs) on 1594kHz + FM.
Special experimental stereophonic prgr's (FM): 10.00-11.00, 14.30-15.30 (symphonic), 20.00-21.00 (light music) on 100.3MHz (Roma), 101.8 MHz (Torino), 102.2MHz (Milano) & 103.9MHz (Napoli).

SHORT WAVES:

Nat. Prgr. on 6060/9515kHz: W 05.30-13.00, 14.00-23.00; Sun 05.30-23.00 — **2nd Prgr on 7175kHz:** W 05.00-11.20, 12.00-23.05; Sun 05.00-11.30, 12.00-13.00, 13.30-23.05 — **3rd Prgr. on 3995kHz:** 16.00-22.15.
Night Prgr. (Notturno dall'Italia): 23.06-04.59 on 6060/9515kHz (and on 845/899kHz): Music and short newsbulletins in Italian & English each full h, in French & German each half h.
NB: All transmissions with omnidirectional antennas for the Mediterranean ares.

FOREIGN SERVICE

ADDR: Viale Mazzini 14, 00195 Roma. **Te:** 38781.
STATIONS: Rome: 5/50/60/100kW (G.C: 12.31E/41.48N); Caltanisetta: 5/25kW (G.C: 14.04E/37.30N) — 1) Caltanisetta — 2) Rome — 3) Bari.

kHz	m	kHz	m	kHz	m	kHz	m
556	530.0[1]	6075	49.38	9630	31.15	15400	19.48
845	355.0[2]	7130	42.98	9710	30.90	17740	16.91
1115	269.0[3]	7160	41.90	11800	25.42	17770	16.88
1331	255.4[3]	7175	41.81	11810	25.40	17795	16.86
5955	50.39	7235	41.47	11875	25.26	17815	16.84
5990	50.08	7275	41.24	11905	25.20	21560	13.91
6010	49.92	7290	41.15	11965	25.07	21695	13.83
6050	49.59	9515	31.53	15310	19.60		
6060	49.50	9575	31.33	15340	19.56		

EUROPEAN SERVICE: "Rome Calling Europe"

Albanian	kHz/Beams	German	kHz/Beams
15.00-15.20	7160/9710	17.50-18.10[1]	6050/7235/9575
Bulgarian		18.15-18.35[2]	6050/7235/9575
15.40-16.00	7160/9710	15.40-16.00[3]	5990/7290/9575
Czech		[1]) to We. Germany.	
18.15-18.30	7290/9710	[2]) to Ea. Germany.	
21.35-21.55	6050/7275	[3]) to Austria.	
Danish/Swedish*		**Greek**	
20.00-20.20	7275/9710/11810	15.20-15.40	7160/9710
English		**Hungarian**	
19.35-19.55	6075 (nd)/ 7275 (310°)/ 9710 (310°)	19.35-19.55	7235/9575
		Italian	
		14.30-14.55[1]	9710/11905
Esperanto (Sun)		16.05-16.55[2]	7290/9575/11905
20.00-20.20	7275/9710/ 11810 (355°)	[1]) incl. Maltese.	
		[2]) for Ce. Europe.	
French		**Lithuanian**	
14.30-14.55	7290 (310°)/ 9575 (nd)/ 11875 (310°)	04.45-05.05	7275/9575
		Polish	
		18.45-19.05	7290/9710
		22.10-22.25	6050/7275

Portuguese kHz/Beams
21.10-21.30 7275/9710
Rumanian
05.10-05.30 7275/9575
21.35-21.55 5990/7130/9710
Russian
03.30-03.45 7275/9575/11810/11905/15310
05.35-05.55 7275/9575
16.05-16.25 9710/11875
Serbo-Croat
15.00-15.20 5990/7290/9575
19.10-19.30 5990/7275
Slovak
18.30-18.45 7290/9710
21.55-22.10 6050/7275
Slovene
15.20-15.40 5990/7290/9575
Spanish
20.50-21.10 7275/9710
Turkish
20.00-20.20 9575/11905
Ukrainian
03.50-04.10 7275/9575
*Danish: Tues, Thurs, Sat; Swedish: Mon, Wed, Fri.

GENERAL OVERSEAS SERVICE TO AUSTRALIA/NZ/FAR EAST
English
22.00-22.25 5990/9710/11905 (50°)
03.50-04.10 9710/11810/11905 (90°)
Italian
20.50-21.30 9575/11800/15310
06.00-06.45 11810/15340/17795/17815/21560

TO AFRICA
Amharic
04.15-04.35 15340/17795/21560
Arabic
17.50-18.10 9710/11875
20.25-20.45 7275/9710
French
16.30-16.55 9710 (nd)/11875 (218°)

Italian kHz/Beams
04.35-05.10 15340/17795/21560
17.00-17.45 9710/11875/17770/17815/21560
Somali
05.10-05.30 15340/17795/21560

TO NEAR EAST
Arabic
05.35-05.55 9710/11810/15340
19.10-19.30 11810/15400/17770
English
20.25-20.45 5990 (nd)
9575 (115°)
11800 (90°)

TO MEDITERRANEAN
Italian/English
04.15-04.40 6075/7275

TO LATIN AMERICA
Italian
18.40-19.05 15400/17770
01.40-03.05 9575/11810/11905/11965/15310
Portuguese
01.30-01.35 11905/15310/17770
Spanish
01.00-01.20 11905/15310/17770
03.05-03.25 9575/11810/11905/11965/15310

TO NO. AMERICA
English
01.00-01.20 6010/9575 (310°)
French
01.20-01.35 6010/9575 (310°)
Italian
18.40-19.05 21560 (for Canada)
22.30-01.00 9575/11810/11905/15310/17770

NEWS in English: 01.00, 03.50, 04.25, 19.35, 20.25, 22.00.

ANN: "RAI — Radiotelevisione Italiana, stazioni del (programma Nazionale, Secondo programma, Terzo Programma)". Night prgr: "RAI — Radiotelevisione Italiana stazioni a onda media di Roma 2kHz 845 pari a m. 355 e di Milano 1kHz 899 pari a m. 333.7 e stazioni ad onda corta di Caltanisetta kHz 6060 e 9515 pari a m. 49,50 e 31,53" — "Notturno dall' Italia" — Foreign Sce: I: "RAI — Radiotelevisione Italiana — stazioni ad onda corta di m. . . . pari rispettivamenta a . . . kHz — Transmissioni in lingua Italiana per . . .". E: "This is the Italian R. & Television Sce. Broadc. from Rome". F: "Ici la R. Italian". G: "Hier ist der Italienische Auslandssendedienst in Rom". **INT-SIG:** Bird chirping, opening signal: bells (composition by A. Parelli) — **V.** by QSL-card — **PUB:** "Radiocorriere" (weekly) for Home Sce. Prgr. schedule 3 times a year in E, F, G, I (Foreign Sce) — **ALF:** Lire 3.300,-.

LUXEMBOURG

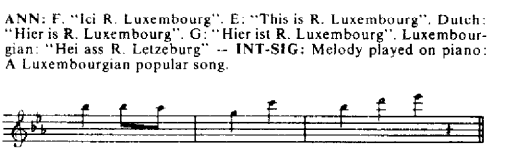
L.T: GMT + 1 h — **Pr.L:** Luxembourgian, French.

RADIO LUXEMBOURG (Comm.)
ADDR: Compagnie Luxembourgeoise de Télédiffusion, Villa Louvigny, Luxembourg. **Cable:** Radio Luxembourg. **Te:** 25881. **L.P:** Dir. Gen: M. Felten. Secr. Gen: G. Graas.
STATIONS:
233kHz 1287m 600/1100kW — 1439kHz 208m 300/600kW.
15350kHz 19.54m 6kW — 6090kHz 49.26m 100kW. **FM:** 92.5MHz 50kW — 97MHz 100kW — 88.9MHz 100kW.

HOME SCE. in Luxembourgian on 92.5MHz: W 10.30-13.00, 17.30-21.00; Sat 10.30-13.30; Sun 07.30-21.00 — **N:** 11.45, 18.00, 18.30, 21.00.

FOREIGN SCE:
On 233/15350kHz in French: W 04.20 (Sun 05.20)-02.00 (Sat 04.00) — **N:** (W) 05.00, 05.30, 06.00, 06.30, 07.00, 07.30, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 20.00, 21.00, 22.00, 23.00, 24.00, 01.00, 02.00.
N (Sun): 06.00, 06.30, 07.00, 07.30, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 20.00, 21.00, 22.00, 23.00, 24.00, 01.00, 02.00 — **Rlg. Prgr's (French):** Sun 05.20-05.55, 07.30-08.00, 18.30-19.00. **German:** Thurs 09.30-10.25.
On 1439/6090kHz in Dutch, German, English:
Dutch: Sun 06.30-12.00 (W 08.00-11.00). **N:** W 08.00, 09.00, 10.00, 10.54 (Sun 07.30, 09.00, 11.00) — **German:** 05.15-08.00, 11.00 (Sun 13.00)-18.30 (also on 97MHz). **N:** W 17.55 — **English:** 18.30 (Sun 18.00)-02.00 on 1439kHz, also on 6090kHz 19.00-02.00.
International Rlg. Prgr's:
On 1439/6090kHz: W 04.00-05.15 in German; Sun 04.30-04.45 in English; 04.45-06.30 in German; 06.30-07.30 in Flemish.
On 6090kHz only: Mon 19.15-19.25 German; Tues 05.30-05.45 Finnish; 19.00-19.15 Polish; Wed 06.15-06.30 German; Thurs 06.15-06.30 German; 20.00-20.15 Spanish; Fri 19.00-19.15 Russian; Sat 19.00-19.15 German; Sun 19.00-19.15 Slovak.
On 97MHz in German and English: German: 05.00 (Sun 06.00)-24.00 — **English:** 24.00-02.00 relay 1439kHz.

ANN: F. "Ici R. Luxembourg". E: "This is R. Luxembourg". Dutch: "Hier is R. Luxembourg". G: "Hier ist R. Luxembourg". Luxembourgian: "Hei ass R. Letzeburg" — **INT-SIG:** Melody played on piano: A Luxembourgian popular song.



V. by letter or QSL-card — **ALF:** Bfrs 96,-

MALTA (State of)

L.T: GMT + 1 h — **Pr.L:** English, Maltese.

BROADCASTING AUTHORITY MALTA
an independent Authority, to regulate and supervise sound and television broadc. in Malta with power to prescribe and produce prgr's — **ADDR:** 12, Old Treasury Str, Valletta. **Cable:** Broadcasts. **Te:** Ce 21281 — **L.P:** Chmn: J. A. J. Montarano-Gauci, C.B.E, K.M, LL.D. Chief Executive: J. A. Manduca: Secr: A. J. Ellul. — **ALF:** £1/0/0.

RADIO MALTA
(Comm. a subsidiary of the Malta TV Service Ltd).
ADDR: P.O. Box 384, Gwardamanga. **Te:** 25051 — **L.P:** Gen. Mgr: E. A. Hamilton Hill, O.B.E. St. Mgr: W. A. Fenton.
STATIONS: 1214kHz 247m 1kW — **FM:** 89.7MHz 1kW (ERP).
D.PRGR. in Maltese and English (test tr's only): Mon-Fri 12.00-13.30, 20.00-23.00; Sat 10.15-18.30, 21.00-24.00; Sun 10.15-18.30, 20.00-23.00. Reports not wanted.

BRITISH FORCES BROADC. SCE. MALTA
is operated by the Ministry of Defence to provide a sce. of inf. entertainment as well as a link with home for H.M. Forces in Malta. It is non-comm, does not accept paid adv.
ADDR: B.F.P.O. 51, Malta — **L.P:** St. Contr: E. A. King.
STATION: 1425kHz 210.5m 1kW, 93.7MHz 4kW — **D.PRGR'S:** 08.00-11.00 (W), 16.30 (Sat/Sun 13.00)-22.15 — **N:** 08.15 (W), 13.00 (Sat/Sun only), 18.00, 22.00 — **ANN:** "This is the British Forces Broadc. Sce. Malta" — **INT-SIG:** "The Waltzing Bugle Boy" (Celeste) — **V.** by QSL-card. Rp — **PUB:** "Gwida" (weekly).

CENTRAL MEDITERRANEAN RELAY
(Relay of BBC Arabic Sce)
For Libya/Tunisia: On 1178kHz 254.5m 10kW: Arabic 03.45-05.45, 13.00-21.00.

REDIFFUSION MALTA LTD. (Priv, Comm.)
ADDR: P.O. Box 82, Gwardamanga. **Cable:** Rediffusion. **Te:** Central 25051 — **L.P:** Gen. Mgr: E. A. Hamilton-Hill, O.B.E. Mgr: J. N. Tabone, CPA, FCCS.
D.PRGR: Prgr I: 06.00-23.00. Mainly BBC (World Sce) with locally produced substitutions — Prgr II: Maltese 05.00-22.00. Local prgr's — **ALF:** £1-0-0.

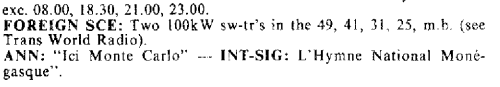
MONACO

L.T: GMT + 1 h — **Pr.L:** French.

RADIO MONTE CARLO (Comm.)
ADDR: B.r. 128, Monte Carlo. **Cable:** Radio Carlo. **Te:** 305252. **L.P:** Dir. Gen: J. Maziol. Dir. Tec: G. Auvray. Dir. of Prgr's: J. Gauthier. Dir. of Comm. Sce: E. Bosio. Dir. of Comm. Prgr's: J. Mathieu. Chief Press Section: Jean-Louis Medecin. Editor-in-chief: Jean-Michel Royer.
STATIONS (G.C: 07.26E/43.44N):

kHz	m	kW		kHz	m	kW
218	1376.0	1200	—	6035	49.71	30
1466	204.6	400	—	7135	42.05	30

FM: 93.5MHz 30kW.
HOME SCE: 05.00-01.00 — **N:** From 06.00 to 18.00 every h on the h exc. 08.00, 18.30, 21.00, 23.00.
FOREIGN SCE: Two 100kW sw-tr's in the 49, 41, 31, 25, m.b. (see Trans World Radio).
ANN: "Ici Monte Carlo" — **INT-SIG:** L'Hymne National Monégasque".



V. by letter — **PUB:** Weekly prgr. sched.

TRANS WORLD RADIO
ADDR: P.O. Box 141, Monte Carlo. **Te:** 302233. **Cable:** Votan. **L.P:** Pres: Paul E. Freed, Ph.D. Dir. Gen: R. Freed D. D. St. Mgr: Norman Olsen. Field Secr: E. Priddy. Chief Eng: R. Hertzog. Scientific Adviser: L. M. Muggleton, Ph.D. F.I.E.E.C. Eng. Dir. Pub. Rel: David Carlsson.

THIS IS RADIO NORWAY

NORSK RIKSKRINGKASTING

(The Norwegian Broadcasting Corporation)

THIS IS RADIO NORWAY . . . . .

. . . with the new Television House in front, and the Radio House from 1940 in the background.
Before long the construction of an administration block will be started, to complete the plans for a modern TV-center in the Norwegian capital.

Head, English Sce: Mrs. Ralph Freed. Head, French Sce: R. Bührer. Head, German Sce: H. Schulte. Head, Spanish Sce: M. Valbuena. Head, Portuguese Sce: J. Lima. Head, Russian Sce: N. Leonovich.

STATIONS (G.C: 07.26E/43.44N): 2 × 100kW tr's.

kHz	m	kHz	m	kHz	m	kHz	m
5960	50.34	7290	41.15	9655	31.07	11920	25.17
7230	41.49	9575	31.33	9735	30.82	11925	25.16
7240	41.44	9590	31.28	11700	25.64	11940	25.13
7245	41.41	9595	31.27	11740	25.55		
7255	41.35	9635	31.14	11865	25.28		
7260	41.32	9640	31.12	11905	25.20		

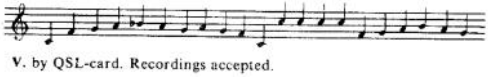
D.PRGR:
Albanian: 16.45-17.00 (Fri) on 7260kHz — **Arabic:** 13.35-13.50 (Fri/Sat) on 7230kHz, 18.10-18.25 (D) on 11700kHz, 18.25-18.40 (Thurs) on 11700kHz — **Armenian:** 18.25-18.40 (Sat/Sun) on 11700kHz — **Bulgarian:** 07.00-07.30 (Sun) on 9575kHz, 19.15-19.30 (Wed-Sat) on 7245kHz — **Czech:** 16.45-17.00 (Sun/Thurs/Sat) on 7230kHz — **Dutch:** 10.00-10.30 (Sat) on 9640kHz — **English:** 06.25-10.00 (Sun) on 7290kHz, 15.00-16.15 (Sun) on 7255kHz, 06.25 (Sat 06.10)-08.00 (Sat 08.15) on 7290kHz — **Estonian:** 16.30-16.45 (Thurs) on 11923kHz, 17.30-17.45 (Sun/Tues/Fri) on 11940kHz — **Finnish:** 16.30-16.45 (Tues/Fri) on 11923kHz — **French:** 11.45-12.00 (D) 7260/5960kHz, 12.00-12.15 (Mon/Wed/Thurs/Fri) on 7260kHz, 12.00-12.15 (Sun/Wed) on 5960kHz — **German:** 08.30-08.45 (D) on 7230kHz, 08.30-08.45 (Mon-Sat) on 9655kHz, 11.25-11.40 (D) on 7230kHz, 14.30-14.55 (D) on 7230/9655kHz — **Greek:** 12.15-12.30 (Sun 12.45) on 9735kHz — **Hebrew:** 19.00-19.15 (D) on 11740kHz — **Hungarian:** 16.30-16.45 (D) on 7230kHz — **Italian:** 13.20-13.50 (Sun) on 5960kHz, 13.20-13.35 (Mon-Sat) on 5960kHz — **Latvian:** 17.30-17.45 (Mon/Wed/Thurs/Sat) on 11940kHz — **Lithuanian:** 16.30-16.45 (Sat) on 11923kHz — **Norwegian:** 17.00-17.30 (D) on 9595kHz — **Polish:** 16.00-16.15 (D) on 9590kHz — **Portuguese:** 19.30-19.45 (Sun) on 9635kHz — **Rumanian:** 16.45-17.15 (Tues), 17.00-17.30 (Sun) on 7230kHz — **Russian:** 07.30-08.15 (Sun) on 11905kHz, 15.20-15.55 on 11865kHz, 18.30-18.45 (Mon/Tues/Fri) on 9655kHz, 18.30-19.00 (Sun/Wed/Thurs) on 9655kHz — **Spanish:** 10.30-11.00 (Sun) on 7260kHz, 13.00-13.15 (Mon/Wed/Fri) on 7260kHz, 13.00-13.30 (Sun/Tues/Thurs/Sat) on 7260kHz — **Turkish:** 18.25-18.40 (Fri) on 11700kHz — **Ukrainian:** 10.45-11.15 (Sun) on 11920kHz, 15.05-15.20 (Sun/Fri/Sat) on 11865kHz, 18.30-19.00 (Sat) on 9655kHz — **Yiddish:** 08.45-09.00 (Sun) on 7230kHz — **Yugoslavian:** 13.30-13.45 (Sun) on 7240kHz, 16.45-17.00 (Wed) on 7240kHz — **DX-Special:** Sat 06.10.

MW-PRGR (1466kHz 400kW):
Arabic: 22.15-23.00 (Wed/Thurs); 22.45-23.00 (Tues) — **Dutch:** 22.00-22.15 (Wed) — **English:** 21.30-22.30 (Sun), 21.30-22.45 (Mon), 21.30-22.30 (Tues), 21.30-22.00 (Wed), 21.30-22.00 (Thurs), 21.30-22.30 (Fri), 21.30-22.00 (Sat) — **Faroese:** 22.30-22.45 (Tues) — **French:** 21.00-21.05 (D), 22.00-22.15 (Thurs), 22.45-23.00 (Sat) — **German:** 04.45-05.15 (D), 21.05-21.30 (D) — **Hungarian:** 22.45-23.00 (Mon) — **Italian:** 23.30-24.00 (Fri), 23.00-23.45 (Sat) — **Portuguese:** 22.15-22.30 (Tues) — **Spanish:** 22.45-23.00 (Sun) — **Yugoslavian:** 22.30-22.45 (Sun).

LW-PRGR: On 218kHz 1376.0m 1200kW:
French: 04.30-05.00 (D).

ANN: E: "This is Monte Carlo" or "You are listening to Monte Carlo, we invite our listeners in the British Isles to stay tuned to the following prgr's of Trans World Radio". F: "Ici Monte Carlo, Trans World Radio vous presente un programme en language Française". G: "Hier ist Monte Carlo, von Trans World Radio hören Sie ein Programm in deutscher Sprache".

INT-SIG: Musical Box.



V. by QSL-card. Recordings accepted.

PUB: Mw + sw schedules available on request — **FI:** Dedicated excl. to broadc. Gospel of our Lord and Saviour Jesus Christ and is maintained by free will contributions.

NORWAY

L.T: GMT+1 h — **Pr.L:** Norwegian.

NORSK RIKSKRINGKASTING (Gov.)
A con-comm. enterprise operated by an indep. State organization.

ADDR: Bj. Bjørnsons Plass 1, Oslo. **Te:** 463820. **Cable:** Studio. **Telex:** Radio: 1023. Television 1794. Foreign Relations Service: 6820. **L.P: Radio and Television:** Dir. Gen: Dr. Hans Jacob Ustvedt. Dir. Adm: O. Granlund. Chief Secr: B. Kragem. Dir. Personnel: O. Svanevik. Editor "Programbladet": E. Strand. Head of Foreign Relations Service: K. C. Lyche. Press & Inf. Officer: O. Grythe — **Radio:** Dir. Prgr: T. Elster. Dir. Tec: E. Julsrud. Prgr. Editors: A. Klæbo, H. Kiran, H.Sv. Nesheim. P. Riste, L. Rustad, H. Heiberg, K. Lange, P. Bøhn. Shortwave Dept: E. Thokle. **Television:** Dir. Prgr: O. Nes. Dir. Tec: T. Navelsaker. Prgr. Editors: J. Frydenlund, T. Berg, A. Okkenhaug, E. Diesen, T. B. Thoresen. L. Johnson, O. Foss.

Norway

RADIO TRANSMITTERS

Long and Medium Waves:

	kHz	m	kW		kHz	m	kW
Tromsø	155	1934	10	Stavanger	1313	228	100
Oslo	218	1376	200	Odda	1466	205	0.25
Røros	520	577	0.25	Geilo	1466	205	0.25
Vigra	629	477	100	Kautokeino	1466	205	1
Bodø	674	445	10	Narvik	1466	205	1
Finmark	701	428	20	Porsgrunn	1466	205	0.25
Bergen	890	337	20	Sandnessjøen	1466	205	0.25
Kristiansand	890	337	10	Svalbard	1466	205	1
Trøndelag	890	337	10	Brønnøysund	1484	202	0.25
Alta	1115	269	0.25	Glomfjord	1484	202	0.25
Arendal	1115	269	0.25	Karasjok	1484	202	1
Bø i Vesterålen	1115	269	1	Mosjøen	1484	202	0.25
Lista	1115	269	0.25	Rjukan	1484	202	0.25
Mo i Rana	1115	269	0.04	Fredrikstad	1578	190	10
Namsos	1115	269	1	Nordkapp	1578	190	1.3
Notodden	1115	269	1				

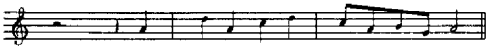
FM-STATIONS:	MHz	kW	FM-STATIONS:	MHz	kW
Forde	82.8	15	Sogndal	91.5	30
Nordhue	87.6	60	Kjeldeknatten	91.7	1.1
Hovdefjell	87.8	25	Kistefjell	91.8	1.8
Gulen	88.0	15	Varanger	91.8	30
Trolltind	88.2	9	Grong	91.9	60
Hemnes	88.5	30	Hadsel	92.4	15
Oslo	88.65	100	Melhus	92.4	60
Karasjok	88.75	1.8	Tana	92.5	30
Greipstad	88.8	11	Lønahorgi	93.3	60
Narvik	88.8	15	Bokn	93.5	100
Bergen	89.1	60	Leisja	93.5	3.1
Reinsfjell	89.1	30	Bremanger	93.6	15
Vega	89.3	25	Bjerkreim	94.2	60
Nordfjordejd	89.4	15	Jetta	95.9	15
Stord	96.0	60	Ramsöy	95.9	2.1
Hasvik	90.1	3	Hestmannen	97.0	2
Steigen	90.3	30	Fauske	97.6	1.3
Steinkjer	90.9	12	Tron	98.3	30
Kongsberg	91.3	60	Grimo	98.4	1.1
Gamlemsveten	91.4	60	Lakselv	99.9	2.4

+ 77 low power satellite tr's.

Power Line Distribution: Langerak 300kHz 0.6kW, Brokke 290kHz 1kW, Oppdal 290kHz 1kW, Røldal 285kHz 1kW, Tonstad 290kHz 2kW, Verma 290kHz 0.3kW. Arøy 300kHz 0.66kW, Sulitjelma 511kHz 0.25kW.

HOME SCE: W 05.40–09.25, 10.20–13.30, 15.00–22.20. Sun 06.30–14.00, 15.00–22.20. **N:** 05.40 (W), 0.700 (W), 08.00 (Sun), 12.10, 15.05, 17.35, 21.10 – **Wrp:** 05.40 (W), 07.00 (W), 08.00 (Sun), 12.00, 17.30, 21.00 – **Rlg:** Sun 10.00, Thurs 17.00, W 07.15 – **Samisk** from Tromsø (1935m) and Vadsø: Mon, Wed 13.50, Tues 13.25, Thurs, Sat 13.40. **Reg. Prgr's** (over all tr's): W 13.00–13.30.

ANN: "Dette er Norsk Rikskringkasting". In Samisk: "Dát læ Norga Riikareádio, Tromsas. Dii gullabettet Samigiel prográmma". **INT-SIG:**



FOREIGN SERVICE

Tr's: Fredrikstad 120kW(2), 100kW(1), 10kW(2).
Freq's that may be used during the year:

Call	kHz	m	Call	kHz	m	Call	kHz	m
LKF	1578	190.1	LLH	9645	31.10	LKW	17775	16.88
LKJ	6130	48.94	LKQ	11735	25.56	LLN	17825	16.83
LLI	6185	48.50	LLK	11850	25.32	LKC	21655	13.86
	7210	41.61	LLJ	11860	25.30	LLP	21670	13.85
LLR	7240	41.44	LKV	15170	19.78	LLQ	21730	13.81
LLD	9550	31.41	LLM	15175	19.77	LLL	25730	11.66
LLG	9610	31.22	LKU	15345	19.55	LLA	25900	11.58

G.C: Fredrikstad 10.58E/59.11N; Tromsø 18.55E/69.41N.
Abbreviations: I = M. East/New Foundland/U.S.A. (West)/Ce. America; II = Pacific/F. East/NZ/Indonesia/We. Australia/Ea. Africa; III = F. East/Ea. Australia/NZ/So. America/We. & So. Africa/We. Europe; IV = M. East/India/Indonesia/We. Australia/U.S.A. (East)/Ce. & So. America/We. Europe; V = We. Europe/New Foundland/U.S.A./Ce. America; VI = Scandinavia/Pacific/Africa; VII = We. Europe/Africa; VIII = No. Africa/New Foundland/So. America; IX = We. & So. Africa/So. America/New Foundland.
Stations: Freq's in bold types refer to tr's of 100 or 120kW; others 10kW.

Times	Area	kHz/Beams
03.00–04.30	I	1578*, **9550**(120°), **9610**(330°), **9645**(290°)
07.00–8.30	II	**11735**(05°), 21655(185°), **21730**(45°) 25730(95°), **25900**(65°)
11.00–12.30	III	**7210***, **11850**(45°), 21655(185°), 25730(45°), **25900**(100°)
13.00–14.30	IV	**9645**(45°), 21655(185°), **21730**(150°), 25730(275°), **25900**(115°)
15.00–16.30	V	**17825**(330°), 21655(150°), **21730**(330°), 25730(225°), **25900**(275°)
17.00–18.30	VI	**15175**(150°), 21655(150°), **21730**(185°), 25730(275°), **25900**(225°)
19.30–20.00	VII	**11735**(150°), **11850**(330°), **15175**(330°), 21730(275°), 25730(225°)
21.00–22.30	VIII	**11735**(290°), **11850**(225°), **11860**(260°)
23.00–00.30	IX	1578*, **9645**(290°), **11735**(315°), **11850**(225°)
01.00 02.30	X	1578*, **9550**(310°), **9610**(330°), **9645**(290°)

*) omnidirectional aerial.

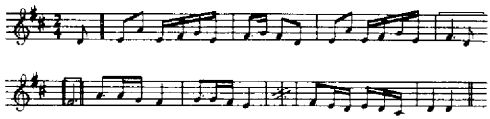
N. in English: Sun 12.00, 14.00, 16.00, 18.00, 20.00, 22.00. Mon 00.00, 04.00, 08.00 – **N.** in Norwegian at the beginning of each tr.

Prgr's in Spanish: Every Fri/Sat at approx 12.20, 14.20, 16.20, 18.20, 20.20, 22.20, 00.20, 04.20, 08.20 mainly intended for Spanish seamen on board Norw. ships.
N. in Faroese: Fri 14.45 – **Weather at Sea:** 14.50, 23.00, 01.00, 03.00.

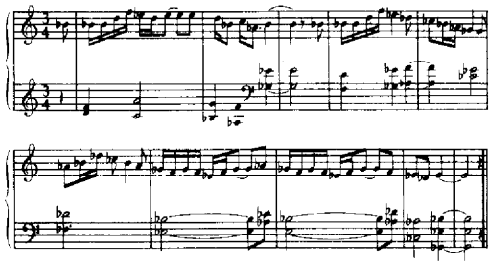
The Tromsö Shortwave transmitter carries the Norwegian Home Service on 11735kHz **10kW** (Beam 280°) for the Norwegian fishing fleet around Iceland and Greenland.

Prgr. for Norwegians abroad: Sun: Rel. Sce, Sport, L.N. – Mon: Sport N, Parliament N. – Tues: Topicalities L.N. – Wed: Request Prgr. (music), L.N. – Thurs: World N, L.N. – Fri: Missionary, Shipping N, L.N. – Sat: Request prgr, L.N.

ANN: "This is the overseas service of Radio Norway".
INT-SIG: Every s.w. transmission is introduced by the following theme which originates from an ancient folk tune from Hallingdal.



Five minutes previous to every s.w. tr. the following signal is sent:



Prgr's in English: Tr's include news, music, interviews, and feature prgr's. We are grateful for comments on our transmission. Reports are answered by QSL-card. Return postage is not necessary. Our postal address is: **Radio Norway,** Oslo, Norway.

PUB: Programbladet (weekly), Prgr. schedule free on request – **ALF:** N.Kr. 50.00.

TELEVISION TRANSMITTERS

STATIONS:	ch	kW (ERP)		ch	kW (ERP)
Greipstad	2	15	Hovdefjell	7	30
Gulen	2	8	Salten	7	12
Melhus	2	100	Sogndal	7	20
Steigen	2	12	Bokn	8	100
Gamlemsveten	3	30	Jetta	8	4
Hemnes	3	12	Kistefjell	8	4
Bremanger	4	30	Bergen	9	140
Kongsberg	4	100	Lyngdal	9	15
Hadsel	4	10	Tron	9	30
Grong	5	20	Vega	9	5
Nordhue	5	60	Lillehammer	10	1
Grimo	6	0.55	Lønahargi	11	10
Bjerkreim	6	7	Fister	11	1.5
Oslo	6	100	Trolltind	11	8
Reinsfjell	6	60			

+ 125 low powered satellites less 0·5kW not mentioned.

D.Prgr: W 07.30–15.00 (exc. Tues). Prgr's: Mon–Fri 19.00–22.00; Sat/Sun 18.00–23.00 – **ALF:** N.Kr. 200,00 (incl N.Kr. 50.00 for radio licence).

UKE-SENDEREN

is operated by students of the Technical University of Trondheim all odd-numbered years, and by students of the University of Oslo all even numbered years.
STATIONS: Depend on issuing authorities (Telegrafstyret) –
D. PRGR'S: Depend on issuing authorities (NRK).

NOREA RADIO (Nordic Radio Evangelistic Association).

ADDR: Grensen 19, Oslo 1. **Te:** 417640. **Cable:** Norskluth – **L.P:** Dir. Adm. and Prgr: Å. Nevland. Dir. Tec: S. Spikkeland.
D.PRGR: Norwegian. 17.00-17.30 on 9595 (100kW) over R. Monte Carlo – **V.** by QSL-card or letter – **FI:** By gifts from listeners and friends.

POLAND

L.T: GMT + 1 h; — 1 h. **Pr.L:** Polish.

POLSKIE RADIO I TELEWIZJA (Gov.)

ADDR: Komitet do Spraw Radio i Televizji "Polskie Radio i Telewizja", ul. Noakowskiego 20, Warsaw. **Te:** 2106. **Cable:** "Polskieradio" **L.P:** Pres: W. Sokorski. Vice Pres. Home Sce: E. Adamiak. Vice Pres. Engineering: K. Kozlowski. Dir. Prgr. Home Sce: J. Jesionowski. Dir. Prgr. Foreign Sce: W. Skrabalak. Vice Pres. for TV: St. Stefanski. Dir. Adm: A. Landau. Secr. Gen: H. Cendrowski. Dir. Music: R. Jasinski. Dir. fec: B. Klimaszewski. Head Intern. Relations Office: Dr. S. Mikulicz.

HOME SCE: Long & Medium Waves:

	kHz	m	kW		kHz	m	kW
Warszawa I	227	1321.6	500	Lódź	1367	219.5	60
Poznan	737	407.1	300	Kielce	1484	202.2	2
Warszawa II	818	366.7	300	Jelenia Góra	1484	202.2	2
Katowice	1079	278.0	60	Lódź	1484	202.2	8
Kraków	1205	249.0	60	Olsztyn	1484	202.2	1
Rzeszow	1205	249.0	60	Slupsk	1484	202.2	2
Wroclaw	1259	238.3	100	Szczecinek	1484	202.2	2
Zielona Góra	1259	238.3	50	Zakopane	1484	202.2	2
Gdansk	1304	230.1	60	Gizycko	1594	188.2	1
Szczecin	1304	230.1	160	Opole	1594	188.2	2
Bialystok	1367	219.5	60	Koszalin	1594	188.2	2
Lublin	1367	219.5	60				

FM:	MHz	kW	Prgr.	FM:	MHz	kW	Prgr.
Rzeszow	65.09	5	I + III	Olsztyn	69.56	5	I
Szczecin	65.96	5	I + III	Poznan	69.74	5	I + III
Katowice	65.99	5	II	Lublin	69.92	5	I + III
Kraków	66.11	5	II	Koszalin	69.92	5	II
Czestochowa	66.23	2	I + III	Bialystok	70.01	5	II
Poznań	66.62	5	II	Gdańsk	70.3	5	I + III
Opole	66.77	5	II	Kielce	70.41	5	I + III
Gdańsk	67.0	5	II	Wroclaw	70.67	5	II
Koszalin	67.07	5	I + III	Bydgoszcz	71.1	5	I + III
Raszyn	67.9	10/2	II	Lódź	71.45	5	I + III
Czestochowa	67.79	2	II	Zielona Góra	72.5	5	II
Zgorzelec	68.2	0.3	II	Opole	72.11	5	I + III
Rzeszów	68.24	5	II	Lublin	72.59	5	II
Katowice	68.33	5	I + III	Kielce	72.71	5	II
Lódź	68.51	5	II	Bialystok	72.80	5	I + III
Kraków	68.75	5	I + III	Wroclaw	72.89	5	I + III
Bydgoszcz	69.0	5	II	Ruda Slaska	89.8	3	I + III
Raszyn	69.2	10/5	I + III	Opole	95.00	3	I + III
Zielona Góra	69.14	5	I + III	Warszawa	97.6	9	I + III

Prgr: I: W 03.57 (Sun 04.30)-23.00.
N: 04.00 (W), 05.00, 06.00, 07.00, 08.00 (Sun), 11.04, 14.00, 16.00, 19.00, 22.00 — **Folk Music:** W 11.45-12.00 — **Chopin Concert:** Wed 20.00-20.30 — **The Polish Radio Symphony Orchestra (WOSPR) Concert:** Mon 20.00-22.00 — **L.L: English:** Mon, Thurs 17.30. **French:** Wed, Sat 17.30. **Russian:** Tues, Fri 17.30.
Prgr. II: On 818kHz + all mw-st's: 03.57 (Sun 05.00)-01.00. **On FM:** 03.57 (Sat 03.27, Sun 04.27)-23.00. **N:** 04.30 (W), 05.30, 06.30, 07.30, 11.04, 15.00 (W), 16.00 (Sun), 20.00, 22.50 **Chopin Concert: Sun** 15.30-16.00 — **National Philharmonic Concerts:** Fri 18.30 — **Symphonic Concert:** Sun 11.10 — **L.L: English:** Tues, Fri 08.45. **French:** Thurs, Sun 08.45. **Russian:** Wed, Sat 08.45.
Prgr: III: D 18.00-23.00.

FOREIGN SERVICE

STATIONS: Short Waves:

kHz	m	kW	kHz	m	kW	kHz	m	kW
737	407.1	300	6135	48.90	50/100	11800	25.42	50/100
818	366.7	300	7125	42.11	15/100	11840	25.34	30/100
1259	238.3	100	7145	41.99	40/100	11955	25.09	7.5
1367	219.5	60	7285	41.18	5	15215	19.71	100
1502	199.7	500	9525	31.50	20/100	15275	19.64	100
5995	50.04	15/100	9540	31.45	5/8	17735	16.92	100
5970	50.25	15/100	9550	31.41	15/100	17865	16.80	30/100

Schedule Oct. 68 — April 69

TO EUROPE

Danish	
12.00-12.30	1502, 5995, 7125,
15.30-16.00	9540, 11955
20.30-21.00	
English	
07.00-07.30	7285, 9550
11.00-11.25	11840, 15275
18.30-19.00	7145, 9525
19.30-19.55	6135, 7145
20.30-21.00	6135, 7145
21.00-21.30	1502, 5995, 7125, 9540, 11955
Esperanto	
05.30-06.00	1502, 5995, 7125, 9540, 11955
15.30-15.55	9525, 11840
22.30-23.00	1502, 5995, 7125, 9540, 11955
Finnish	
16.00-16.30	1502, 5995, 7125,
20.00-20.30	9540, 11955

French	
11.00-11.25	11800, 15215
15.00-15.25	9550, 11800
18.00-18.30	7145, 9525
18.30-19.00	1502, 5995, 7125, 9540, 11955
20.00-20.30	7285, 9550
21.30-21.55	1502, 5995, 6135, 7125, 7145, 9540, 11955
German	
07.30-08.00	1502, 5995, 7125, 9540, 11955
11.30-11.55	1502, 5995, 7125, 9525, 9540, 11840, 11955
15.00-15.30	1502, 5995, 7125, 9525, 9540, 11840, 11955
17.30-17.55	1502, 5995, 6135, 7125, 7145, 9540, 11955
German	
19.00-20.00	1502, 5995, 7125, 9540, 11955
21.00-21.30	6135, 7145
23.03-00.00	737, 818, 1259, 1367
Italian	
05.00-05.30	1502, 5995, 7125, 9540, 11955
10.30-11.00	11800, 15215
11.30-12.00	
12.00-12.25	
17.30-17.55	7285, 9550
21.00-21.30	5970, 7285
Polish	
03.00-04.00	6135, 7285, 9550, 11840
04.00-04.55	
06.00-06.30	1502, 5995, 6135, 7125, 7285, 9550, 9540, 11840, 11955
06.30-07.00	
07.00-07.30	6135, 7145
10.30-11.00	11840, 15275
12.30-13.25	11800, 15215
16.30-17.25	1502, 5995, 7125, 7145, 9525, 9540, 11800, 11955, 15215
19.00-19.25	7145, 9525
23.30-23.55	6135, 7145
Spanish	
13.30-13.55	15215, 17735
18.00-18.25	11800, 15215
20.30-20.55	7285, 9550
23.00-23.25	1502, 5995, 7125, 7145, 7285, 9525, 9540, 9550, 11955
23.30-23.55	7285, 9550

Swedish	
08.00-08.30	1502, 5995, 7125, 9540, 11955
11.00-11.30	1502, 5995, 7125, 9540, 11955
15.30-15.55	7285, 9550
18.00-18.30	1502, 5995, 7125, 9540, 11955
22.00-22.30	1502, 5995, 7125, 9540, 11955
Concerts *) Chopin Concert.	
07.00-07.30*	1502, 5995, 7125,
12.30-14.00	9540, 11955
23.30-02.00	

TO AFRICA

English	
13.00-13.30	15275, 17865
19.00-19.25	9550, 11800
22.00-22.30	9525, 9550, 11800, 11840
French	
12.30-13.00	15275, 17865
18.30-19.00	9550, 11800
22.30-22.55	9525, 9550, 11800, 11840

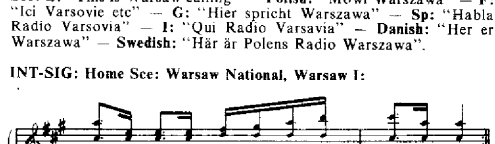
TO ARAB COUNTRIES

Arabic	
12.00-12.30	15275, 17865
13.30-14.00	15275, 17865
16.00-16.25	15275, 17865
20.00-20.25	11840, 15275

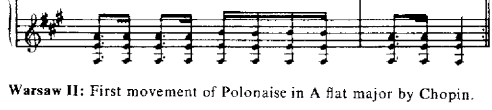
DX-PRGR: English 1st Tues of month 18.30; **Swedish** Thurs 15.30, 18.00. **Finnish:** Every second Thurs of month 16.00 and following Friday 20.00.

ANN: Home Sce: "This is Polskie Radio Warsaw" (or another station when local programme) — "Tu Polskie Radio Warszawa" — **Foreign Sce: E:** "This is Warsaw calling" — **Polish:** "Mówi Warszawa" — **F:** "Ici Varsovie etc" — **G:** "Hier spricht Warszawa" — **Sp:** "Habla Radio Varsovia" — **I:** "Qui Radio Varsavia" — **Danish:** "Her er Warszawa" — **Swedish:** "Här är Polens Radio Warszawa".

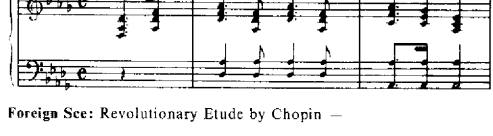
INT-SIG: Home Sce: Warsaw National, Warsaw I:



Warsaw II: First movement of Polonaise in A flat major by Chopin.



Foreign Sce: Revolutionary Etude by Chopin —



V. by QSL-card and letter. Re. to Polskie Radio. Al Niepodleglosci 75/77. Warsaw — **PUB:** "Radio i Telewizja" (weekly). Polish Radio and Television Bulletin (monthly) — **FI:** By licence payments — **AD:** 7% of broadc. time — **ALF:** 180,– Zloys'.

POLISH PATHFINDERS STATION

(Operated by the Polish Pathfinders Union) —
ADDR: Konopnickiej 6, Warsaw —
HOME SCE. in Polish: D 11.00-17.00 (exc. Mon) on 6850kHz 43.80m 0.35kW, 73061kHz 41.06m 0.35kW.
V. by letter. Rp. — **F.PI:** Power to 1kW.

PORTUGAL

L.T: GMT + 1 h — **Pr.L:** Portuguese.

EMISSORA NACIONAL DE RADIODIFUSÃO (Gov.)

ADDR: Central Sce: Rua do Quelhas 2, Lisboa. **Cable:** "Emissora-Lisboa". **Te:** 538 PBX — Reg. Sce's: Emissor Reg. do Norte: Rua Cândido dos Reis, Porto — Emissor Reg. de Coimbra, Rua Dr. J. A. dos Reis (celas), Coimbra — Emissor Reg. do Sul, Faro — Emissor Reg. dos Açores, Ponta Delgada, Açores — Emissor Reg. da Madeira, Funchal.
L.P: Dir. Gen: S. Allegro. Dir. Tec: Eng. M. Bivar. Dir. Adm: Dr. C. Rogeiro. Dir. Prgr: vacant. Head, Intern. & Cultural Exchange Dept: Dra. M.P. de Barros Santos.

HOME SERVICE

NETWORK I: 07.00-01.00 (Sat 02.00).

Medium Waves:	kHz	m	kW	Medium Waves:	kHz	m	kW
Faro	557	539	1	San Gabriel	1358	220.9	100
Guarda	557	539	1	Funchal	1331	225.4	1
Vila Real	620	483.9	10	Porto	1367	219	10
Lisboa I	665	451	135	Coimbra	1448	207	1
Viseu	692	433.5	1	Portalegre	1484	202.2	0.1
Norte I	719	417	25	Covilhã	1562	192	1
Elvas	1331	225	0.1				

Short Waves (to Atlantic) (G.C: 08.40W/38.45N):
Lisboa 11925kHz 25.16m 10kW: 09.00-21.00 — 6025kHz 49.79m 10kW: 21.20-01.00 — Ponta Delgada (Azores): 4865kHz 61.66m 1kW: 10.00-17.00, 18.45-23.00.

FM	MHz	kW		MHz	kW		MHz	kW
Lisboa I	95.7	12	Guarda I	94.7	0.5	Monchique II	91.5	2.5
Porto I	96.7	22	Lisboa II	94.3	12			
Lousã I	87.9	40	Porto II	92.5	22	Azores I	97.9	0.25
Monchique	88.9	2.5	Lousã II	89.3	22			

NEWS: 07.05, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 23.00, 00.50.
NETWORK II: 08.00-23.00.
Lisboa II 755kHz 397m 135kW — Norte II 1061kHz 283m 25kW. + FM st's II.
Reg. Sce's: Porto 11.15-12.00, 16.30-17.45 (Mon, Wed), 19.00-20.00; **Coimbra** 19.00-20.00; **Faro** 19.30-19.50, **Azores** 10.00-17.00, 18.45-23.00; **Madeira** 12.30-15.00, 20.00-24.00.
ANN: "Emissora Nacional, a transmitir com . . . (regional tr's)".

OVERSEAS SERVICE

Short Waves: 7 × 100kW, 1 × 50kW, 1 × 10kW (G.C: 08.40W/38.45N). All st's located at S. Gabriel – studios in Lisboa. All tr's directional.

kHz	m	kHz	m	kHz	m	kHz	m
5985	50.13	9680	30.99	15125	19.83	17890	16.77
6025	49.79	9740	30.80	15315	19.59	17895	16.76
6185	48.50	11840	25.34	15380	19.50	21495	13.96
7130	42.08	11925	25.16	17740	16.91	21660	13.85
9585	31.30	11935	25.14	17880	16.78	21700	13.83
9630	31.15						

Remarks: Powers indicated are the power at carrier level.

PORTUGUESE SCE:
Areas: I) Timor; II) Macau; III) Goa (Port. India); IV) S Tomé/Angola/Mozambique; V) Guinea/Cape Verde/Brasil.

H. of tr.	Area	kHz	Beam	N
04.45-07.00	IV	11935/15125	142°	05.00, 06.45
		17740	142°	
08.00-24.00	*)	11925	274°	see Home Sce.
09.15-13.30	I	21495	66°	
09.15-13.30	II	17740/21495	52°	09.30, 10.30
09.15-13.30	IV	15125/17740	142°	12.00, 13.15
		21700	142°	
13.45-17.00	V	15125/21700	205°	14.00, 16.45
15.00-17.00	III	17895/21495	81°	15.30, 16.30
17.15-21.15	IV	11935/15125	142°	17.30, 18.30, 20.00
		21700	142°	
21.30-01.00	V	9585/11840	215°	22.00, 23.30, 00.15
		15315	215°	

*) Home Sce for Azores — **PUB:** Delete details.

ANN: "Aqui Lisboa, Serviço Ultramarino da Emissora Nacional" — **INT-SIG:** T.S. and National Anthem.

V. by QSL-card. Recordings accepted.

INTERNATIONAL SERVICE ("The Voice of the West")
ADDR: Radio Portugal, Rua do Quelhas 21, Lisboa.
Areas: V = Europe; VI = Australia/NZ; VII = Japan/Far East; VIII = So. Ea. Asia; IX = Africa; X = So. America; XI = No. America; XII = Canada; XIII = Brazil; XIV = U.S.A./Canada/Portuguese Fishing Fleet.

Medium Waves Service:

H. of tr.	L	Area	kHz	N
22.00-22.45	French	Europe	755, 1061	22.00
22.45-23.30	English	Europe	755, 1061	22.45
23.30-00.15	German	Europe	755, 1061	23.30

Short Wave Sce:

English	Area	kHz	Beam	German	Area	kHz	Beam
07.30-09.00	VI	17880	66°	20.00-20.45	V	6025	66°
	VII	21495	66°			7130	66°
13.45-14.30	VIII	17895	81°	**Italian**			
		21495	81°	19.15-20.00	V	6025	66°
18.15-19.45	IX	17895	142°			7130	66°
		21495	205°	**Portuguese**			
20.45-21.30	V	6025	66°	04.45-07.00	V	6025	50°
		7130	66°			6185	50°
02.00-02.45	XI	6025	294			7130	66°
		6185	294°	18.00-21.00	V	9740	66°
		9680	294°	00.00-02.00	XIV	6025	294°
03.00-03.45	XII	11935	316°			6185	294°
03.45-04.30	XIV	6025	310°			9680	294°
		6185	310°	02.45-03.45	XIV	6025	310°
		9680	310°			6185	310°
French						9680	310°
07.00-07.45	V	6025	50°	**Spanish**			
		6185	50°	01.00-01.45	X	9585	215°
		7130	66°			11840	215°
17.30-18.15	IX	17895	142°			15315	215°
		21495	205°	**Koncani**			
18.30-19.15	V	6025	66°	14.30-15.15	VIII	17895	81°
		7130	66°			21495	81°
02.15-03.00	XII	11935	316°				
German							
07.45-08.30	V	6025	50°				
		6185	50°				
		7130	66°				

NEWS: English: 07.30, 08.15, 13.45, 18.15, 20.45, 02.00, 03.45, 04.00. **French:** 07.00, 17.30, 18.30, 02.15. **German:** 07.45, 20.00. **Italian:** 19.15. **Konkani:** 14.45. **Portuguese:** 22.00, 23.30, 00.15, 03.00, 05.00, 06.45. **Spanish:** 01.00.
DX-Prgr: In English: Every Mon 07.45, 08.30, 14.00, 18.30, 21.00, 23.00, 02.15, 04.00, 04.15. In German: 1st and 3rd Fri: 08.00, 20.15, 23.45.
ANN: E: "This is R. Portugal speaking to you from Lisbon". F: "Ici R. Portugal qui vous parle de Lisbonne". Sp: "Esta es R. Portugal que habla desde Lisboa" I: "Qui R. Portogallo che vi parla da Lisbona". G: "Hier spricht R. Portugal aus Lissabon". Konkanin: "Lisboa xarantlo Radio".
INT-SIG: Signature tune of foreign language broadc. is the opening bars of the Fifth Symphony by Beethoven. Closes with National Anthem — **V.** by special QSL-card. Recordings accepted — **PUB:** R. Portugal Listeners Magazine, quarterly (in each language) free of charge — **ALF:** Esc. 100,-.

R. UNIVERSIDADE (Gov.—Ministry of Nat. Education).

ADDR: R. D. Estefânia 14, Lisboa. **Te:** 41883 — **L.P:** Dir: Dr. A. R. Gonçalves Pereira.
HOME SCE: Cultural and informative prgrs. mainly:
D 19.10-19.50 on 665kHz (Lisboa I), Sun also 09.00-10.50 on 755kHz (Lisboa II).
ANN: "R. Universidade, estúdios do Centro Universitário de Lisboa, a transmitir por intermédio dos Emissores da Emissora Nacional" — **INT-SIG:** Opens with "Gaudeamus Igitur" and closes with the "Marcha da Mocidade Portuguesa" — **V.** by QSL-card. Recordings accepted — **PUB:** monthly bulletin free.

RADIO RENASCENCA (Rlg. Catholic)

ADDR: Emissora Católica Portuguesa, Rua Capelo 5, Lisbon. **Te:** 30172 — **L.P:** Dir: M. Lopes da Cruz. Dir. Tec: Eng. B. Machado. Dir. Prgr: C. Pimentel.
STATIONS: Lisboa CSB3 1286kHz 233.3m 2.5kW — CSB52 6155kHz 48.74m 3kW (G.C: 09.12W/38.45N) — Porto CSB30 1169kHz 256.6m 10kW.
FM: Lisboa 93.2MHz 18kW — Valongo 93.7MHz 10kW — Lousa 91.7MHz 25kW — Muro 90.4MHz 12kW — Monchique 98.6MHz 6kW — Bornes 89.6MHz 5kW — Marofa 94.2MHz 6kW — Gardunha 99.5MHz 1kW — Portalegre 95.3MHz 1kW — Mendro 96.5MHz 6kW — Foia 98.6MHz 6kW — S. Miguel 89.6MHz 1kW.
HOME SCE: 07.00-02.00 — **N:** 08.25, 12.45, 20.30.
ANN: "R. Renascenca, Emissora Católica Portuguesa" — **INT-SIG:** Gong. Prgr's open with a religious choir — **V.** by QSL-card.

RADIO CLUBE PORTUGUES (Comm.)

(Sociedade Anónima Cooperativa de Responsabilidade Lda).
ADDR: Central Office: Rua Sampaio e Pina 26, Lisboa 1. **Cable:** Radio-clube. **Te:** 682071. **Telex:** 01596. No. Branch: Delegação do Norte, Rua de Ceuta 53, Porto. **Te:** 23863. **Telex:** 02742 — **L.P:** Gen. Dir: J. Botelho Moniz. Dir. Prgr: A. Jorge. Dir. Tec: M. Menezes. Dir. Insp: A. Moita de Deus. Head, No. Branch: J. B. Moniz.
STATIONS:

		kHz	m	kW	h. of tr.
Miramar	CSB9	782	383.6	100	07.00-04.00
Lisboa	CSB2	1034	290.1	50	24 h
Lisboa	CSB51	6080	49.34	10	24 h

FM Network: 07.00-04.00 Lisboa 97.4MHz, Porto 97.7MHz, Foia 88.1MHz, Alentejo 92.0MHz, Portalegre 98.9MHz, Lousa 90.8MHz, Guarda 96.1MHz, Bornes 91.9MHz (all 3.5kW). **N:** 00.00, 01.00, 03.00, 05.00, 06.00, 07.00, 08.00, 09.00, 11.00, 13.00, 15.00, 17.00, 19.00, 20.00, 21.00, 22.00, 23.00 — **Stereophonic Prgr's:** W 11.00-13.00, 22.00-23.00, 00.00-02.00; Sun 17.00-19.00 — **ANN:** "R. Clube Português" — **INT-SIG:** Gong — **V.** by QSL-card. Recordings accepted — **AD:** 15% of broadc. time.

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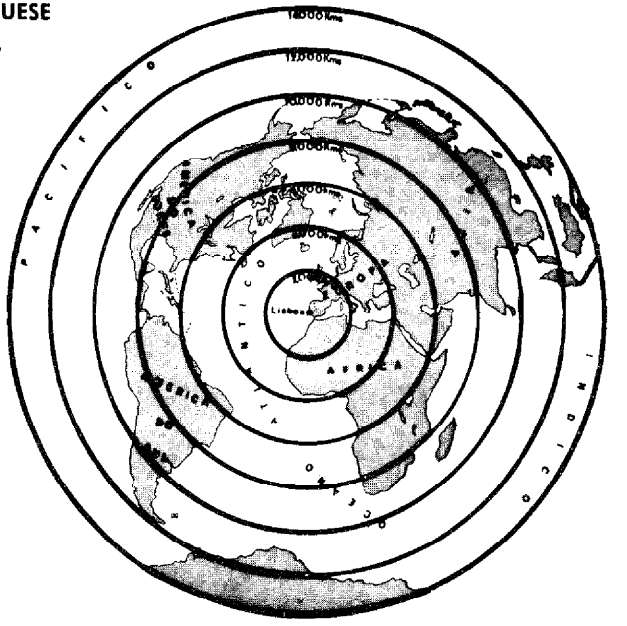


EMISSORES ASSOCIADOS DE LISBOA (Comm.)
ADDR: Rua de Campolide 77, Lisboa 1 **Te:** 683450 **Studios:** [1]) R Voz de Lisboa: Av. Infante Santo 53, Lisboa 3. [2]) Clube Radiofônico de Portugal: Rua Carlos Mardel 5, Lisboa 1. [3]) R. Graça: Rua Verônica 126, Lisboa 2. [4]) R. Peninsular: Rua Fialho Almeida 3, Lisboa 1.
STATIONS: CSB4 1594kHz 188m 10kW — **FM:** CSB266 99.4MHz 1kW.
HOME SCE: D 07.00-02.00. **N:** 12.20, 20.30 — **ANN:** "CSB4, Estação de Emissoras Associados de Lisboa" — **INT-SIG:** String chords (guitar) — **V.** by QSL-card — **FI:** Priv. (4 partners).

EMISSORES DO NORTE REUNIDOS (Comm.)
ADDR: R. D. João IV 960, Porto. **Te:** 30781.
STATIONS: CSB5 1578kHz 190.7m 10kW — FM: CSB84 91.31Mc kW.
HOME SCE: 07.00-03.00. **N:** 13.00, 23.45 — **ANN:** "Aqui Porto Emissores do Norte Reunidos a transmitir. . ." — **V.** by QSL-card or letter. Recordings accepted.

RADIO RIBATEJO (Comm.)
ADDR: Av. 5 de Outubro, 34, Santarém. **Te:** 363 — **L.P:** Dir. Gen: J. Varela Santos. Dir. Tec: A. V. Santos.
STATION: 1322kHz 226.9m 0.5kW.
HOME SCE: W 10.00-20.00, Sun 08.00-20.00 — **N:** 11.45, 13.45, 19.30 — **INT-SIG:** Gong — **V.** by QSL-card and turistic guides of the Province of Ribatejo. Re. in P, Sp, F, E.

R. ALTO DOURO (Priv.)
ADDR: Av. Sebastião Ramieres Regina, Porto. **Te:** 200 — **L.P:** St. Mgr: C. Ruella — **STATION:** CSB33 800kHz 375m 1kW — **HOME SCE:** 10.00-13.00, 17.00-19.00.

ROMANIA (Socialist Rep.)

L.T: GMT + 2 h — **Pr.L:** Rumanian.

RADIODIFUZIUNEA SI TELEVIZIUNEA ROMANA
ADDR: P.O.B. 111, Bucureşti. **Te:** 162080, **Cable:** Radioteleviziunea. **Telex:** 251, **L.P:** Pres: Valeriu Pop. Vice Pres: G. Ionescu, I. Grigorescu, O. Paler, B. Ionitâ. Head Foreign Rel: D. Natu.

STATIONS:	kHz	m	kW		kHz	m	kW
Braşov	155	1935	1200	Craiova	1313	228.5	2/3
Bucureşti	557	538.6	5	Oradea	1430	209.8	6
Timişoara II	629	476.9	30	Craiova	1457	205.9	20
Timişoara I	755	397.4	135	Braşov	1484	202.2	2
Bucureşti I	854	351.3	150	Baia Mare	1484	202.2	2
Miercurea	908	330.4	7	Reşita	1484	202.2	2
Bacau	1052	285.2	50	Sibiu	1484	202.2	2
Cluj	1151	260.6	50	Tg. Mureş	1484	202.2	2
Constanta	1313	228.5	2/1				

HOME SERVICE

1st Prgr: On 155kHz: 03.00 (Sun 04.00) — 03.00 (Fri 01.00-02.00 breaks); On 557kHz: 03.00-01.00; On 629/1484kHz: 03.00 (Sun 04.00) -17.00 (Sun 18.00); On FM: 66.74/70.04/72.74MHz: 03.00 (Sun 04.00)-14.00 (Sun 13.00).
N: W 03.00, 03.30, 04.00, 04.30, 05.00, 06.00, 07.00, 09.00, 11.00, 13.00, 14.00, 16.00, 17.00, 18.00, 20.00, 22.00, 23.00, 24.00, 02.00; Sun 04.00, 06.00, 09.00, 12.00, 14.30, 18.00, 20.00, 22.00, 23.00, 24.00, 02.00; **Wrp:** W. 11.00, 14.00, 20.00; Sun: 12.00, 20.00; **Wrp + suggestions for drivers:** W 04.15, 05.15, 13.00, 23.00, 24.00; Sun 06.00, 23.00, 24.00.
2nd Prgr: W 05.00 (Sun 04.00) — 23.00 on 854/1313/1484/1430kHz + FM 71.18/72.08/68.36MHz; 05.00-05.30 on 755kHz; 05.00-15.00 on 1457kHz, 05.30-10.00 on 1052kHz; 05.45-10.00 on 755/908/1151kHz; 10.45-12.30 on 755kHz, 11.00-14.00 on 1052kHz; 11.30-12.30 on 908/1151kHz, 13.00-14.00 on 755kHz; 14.15-15.00 on 755kHz, 17.00 (Sun 18.00)-23.00 on 629/1484kHz 17.00-23.00 on 908/1151/1457kHz, 17.00 (Fri. 21.00)-23.00 on 1052kHz
Sun: 04.00-23.00 on 854/1313/1484/1430kHz + FM 71.18/72.08/68.36 MHz; 04.00-05.00 on 908/1151kHz; 04.00-05.30 on 755kHz; 04.00-07.00 on 1457kHz, 07.00-08.00 on 755kHz, 07.30-23.00 on 1457kHz, 06.00-14.00 on 1052kHz, 07.30-08.00 on 908/1151kHz, 09.00-14.30 on 755/908/1151kHz, 15.15-17.00 on 755kHz; 15.15-23.00 on 908/1151 kHz; 18.00-23.00 on 629/1052kHz.
N: W 05.30, 06.30, 08.00, 10.00, 12.00, 15.00, 16.55, 19.00, 21.00, 22.55,
Sun: 04.30, 05.45, 07.30, 11.00, 15.00, 17.00, 19.00, 21.00, 22.55.
Wrp: W 10.00, 15.00. **Sun** 11.00.
Wrp + suggestions for drivers: W 05.30, 12.00, 22.55. Sun 05.45, 22.55
3rd Prgr: 14.00 (Sun. 13.00) — 22.00 on 66.74/70.04/72.74MHz **N:** W 16.00, 19.30. Sun 13.00, 17.30, 19.30

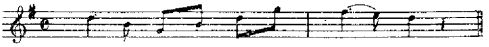
REGIONAL SERVICES

R. Bucharest (on 755/908/1151kHz): Hungarian: W 05.30-05.45, 14.00-14.15, 16.45-17.00 (not on 755kHz); Sun 08.00-08.20, 14.30-15.15. German: W 04.45-05.00 (755kHz only), 12.30-13.00 on 755/908/1151kHz, Sun 08.20-09.00 on 755/908/1151kHz.
R. Cluj (on 908/1151kHz): Romanian: W 04.15-05.00, 10.00-10.30, 13.00-14.00; Sun 05.00-05.45 — Hungarian: W 05.00-05.30, 10.30-11.00 (Mon 12.00), 16.00-16.45; Sun 05.45-06.30.
R. Tg. Mures (on 908/1151kHz): Romanian: W 03.00-03.30, 15.00-16.00. Hungarian: W 03.30-04.15, 11.00-11.30, 14.15-15.00; Sun 06.30-07.30.
R. Timisoara (on 755kHz): Romanian: W 04.00-04.15, 10.00-10.15 (Wed 10.00-11.00), 15.30-17.00; Sun 05.30-05.45; German: W 04.15-04.30 15.00-15.30; Sun 05.45-06.00; Serbian: W 04.30-04.45, 10.15-10.45; Sun 06.00-07.00.
R. Craiova (on 1457kHz): W 04.30-05.00, 15.00-17.00; Sun 07.00-07.30
R. Jasi (on 1052kHz): W 03.30-05.30, 10.00-11.00, 14.00-17.00 (Fri 14.00-21.00); Sun 04.00-06.00, 14.00-18.00.

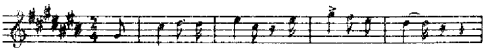
Romania—Spain

ANN: Opening: 1st Prgr: "Aici Bucuresti. Stimati ascultâtori, bună dimineata. Incepem programul zilei pe statiile de radio cu lungimile de undă de" . . . 2nd Prgr: "Aici Bucuresti. Transmitem programul doi pe statiile de radio cu lungimile de undă de . . ." 3rd Prgr: "Aici Bucurestei. Transmitem programul trei pe statiile de radio cu lungimile de undă de . . ."

INT-SIG: Home Sce. 1st & 3rd Prgr:



Home Sce. 2nd Prgr:



FOREIGN SERVICE

STATIONS: 755kHz 130kW, others 120kW (G.C: 26.06E/44.25N)

kHz	m	kHz	m	kHz	m	kHz	m
755	397.3	7225	41.52	11885	25.24	15285	19.63
5990	50.08	9510	31.55	11920	25.17	15380	19.50
6150	48.78	9570	31.35	11940	25.13	17775	16.88
6190	48.47	9590	31.28	15225	19.70	17830	16.83
7175	41.81	11790	25.45	15250	19.67	17850	16.81
7195	41.70	11810	25.40	15275	19.64		

TO EUROPE

English	kHz
13.00-13.30	15250, 17850
19.30-20.30	11940, 15250
22.30-23.00	9510, 11940
French	
11.30-12.00	11810, 15250, 17830
18.30-19.00	11810, 11940, 15250, 15380
20.30-21.00	9510, 11940
21.30-22.00	9510, 11940
German	
12.00-12.30	15250, 17850
19.30-20.00	9590, 11920
21.00-22.00	755
22.00-22.30	7195, 9590
Greek	
12.00-12.30	9590, 11920
18.00-18.30	755
20.30-21.00	755
Italian	
12.30-13.00	9590, 11920
19.30-20.30	755
20.00-22.30	755
Portuguese	
21.00-21.30	11790, 15225, 17850
Rumanian	
20.00-20.30	9590, 11920
22.00-22.30	9570, 11940
22.30-23.00	755
Serbian	
17.00-17.30	755
19.00-19.30	755
Spanish	
11.30-12.00	15285, 17850
19.00-19.30	15225, 17850
20.30-21.00	11790, 15225
21.30-22.00	11790, 15225

TO PACIFIC

English	kHz
06.45-07.15	15380, 17850

TO ASIA

English	kHz
15.00-15.30	17775
Persian	
15.30-16.00	11810, 11940, 15250, 17775
17.00-17.30	11810, 11940, 15250, 17775

TO AFRICA

Arabic	kHz
16.00-16.30	11810, 15250, 17775, 17830
18.00-18.30	11810, 11940, 15250, 17830
19.00-19.30	11810, 15250
English	
15.00-15.30	11810, 15380, 17850
French	
11.30-12.00	17775
17.30-18.00	11810, 15250, 17830

TO NEAR EAST

Turkish	kHz
16.30-17.00	7195, 9570, 9590, 11940
17.30-18.00	755

TO NORTH AMERICA

English	kHz
01.30-02.30 / 03.00-03.30 / 04.30-05.00	9570, 9590, 11810, 11885, 11940, 15250, 15380
Rumanian	
23.15-24.00	11810, 11885, 11940, 15250
03.30-04.00	9570, 9590, 11810, 11885, 11940, 15250, 15380
Yiddish	
02.30-03.00	9570, 9590 11810, 11885 11940, 15250 15380

TO LATIN AMERICA

Portuguese	kHz
22.30-23.00	15275, 17830
01.00-01.30	9570, 9590, 11810, 11885, 11940, 15250, 15380
Spanish	
00.00-01.00	9570, 9590 11810, 11885
04.00-04.30	11940, 15250 15380

ANN: E: "This is Bucharest calling. You are tuned to Radio Bucharest. This broadcast is coming to you from Radio Bucharest". F: "Ici Bucarest. C'est Bucarest qui vous parle. Vous êtes à l'écoute de Radio Bucarest". G: "Hier spricht Bukarest" I: "Parla Bucarest. Qui è Radio Bucarest. E: "Bucarest che vi parla". Sp: "Aqui Bucarest. Habla Bucarest". P: "Aqui Bucareste. Fala Bucareste".

V. by QSL-card — **PUB:** Radio — TV

THE DANISH SHORT WAVE CLUB INTERNATIONAL, Tavleager 31, DK 2670 Greve Strand, Denmark, publishes "SHORTWAVE NEWS" (intern) and "KORTBØLGENYT" for Scandinavia (excl. July). Membership fee per year: D.Kr. 24.00, $ 4.00, £1/5/0, 27 IRC; airmail extra $ 2.25. Payment to K. H. Højlund, Tyge Brahesvej 47, 9000 Aalborg, Denmark.

SPAIN

L.T: GMT + 1 h — **Pr.L:** Spanish.

RADIO NACIONAL DE ESPAÑA (Gov.)

ADDR: General Yagüe 1, Madrid 20. **Te:** 2794600. **Telex:** 7366. **Cable:** Radiogen — **L.P:** Dir. Gen. Broadc. TV: J. Aparicio Bernal. Dir. RNE Nat. Network: J. M. Riancho Sánchez. Secr. Gral. RNE Nat. Network: F. Navarro Goncalves. Dir. Tec. & Engineering: A. Prieto de Arozarena. Chief Music Dept: E. Franco Manera. Chief Dramatic Dept: L. R. Machado. Chief Foreign Prgr. Sce: L. de Andres Frutos. Chief Coord. Prgr. Centre: A. Ramirez Angel. Chief Adm. Sce: J. L. Diez Crespo. Chief Public Relations: E. Pascual Souto. Chief Dept. of Foreign Radio TV Promotion: F. Fernandez Shaw. Chief of Foreign Radio Prgr. Promotion: R. Ramos Losada.

HOME SERVICE

	kHz	m	kW	h. of tr.
Oviedo	548	547	50	06.00-00.30
Madrid (Central)	584	513	100/200	24 h
La Coruña	638	470	100	07.00-00.30
Sevilla	683	439	125/250	24 h
Barcelona	737	407	125/250	24 h
San Sebastian	773	388	20	06.00-00.30
Murcia	854	351	125	06.00-00.30
Madrid*	989	303	50	06.00-01.00
Malaga*	1007	298	10	06.50-00.15
Valencia*	1079	278	25	06.30-01.00
Barcelona*	1178	255	20	06.00-01.00
Cuenca*	1187	253	5	06.45-00.15
Sevilla*	1187	253	5	06.00-00.15
Madrid (3rd Prgr)	1223	245	50	06.00-23.00
Zaragoza	1313	228	10	06.00-00.30

*) R. Peninsular

SECOND PRGR: (Musical Prgr. on FM only): 07.00-23.00

	MHz	kW		MHz	kW
Salamanca	88.1	0.5	Cuenca	93.0	0.125
Aitana[1]	88.5	12	La Coruña	93.3	1.5
Alfabia[2]	89.7	12	Sollube[9]	93.9	4
Jaizquibel[3]	90.0	12	Sevilla	94.2	0.5
Lujar[7]	90.3	1.25	Tolosa[3]	94.8	
Santander	90.3		Torrelavega[10]	97.9	
Bilbao	90.5	0.5	Malaga	98.1	0.5
Guadalcanal[5]	90.6	12	Murcia	98.1	0.5
La Muela[6]	90.9	3	Santiago	98.1	12
Valencia	92.0	1.2	Beasain[3]	98.4	
Sierra Aramo[8]	92.3		Navacerrada (Madrid)	98.75	30
Alcoy[1]	92.3		Eibar[3]	98.8	
Madrid	92.4	30	León	99.3	
Cartagena[4]	92.7		Mieres[8]	99.6	
Jativa	92.7				
Barcelona	93.0	15			

THIRD PRGR (Cultural): 06.00-23.00

	MHz	kW		MHz	kW
Santiago	89.7	0.5	Beasain[3]	95.6	
Oviedo	90.3	0.4	Navacerrada	95.8	
Alcoy[1]	91.1		Murcia	96.0	0.5
Salamanca	91.5		La Muela[6]	96.3	3
Madrid	91.5		León	98.4	
Cartagena	91.5		Barcelona	98.5	
Jativa	91.5		Mieres[8]	98.8	
Jaizkibel[3]	92.1	6	Santander	98.5	
Cuenca	92.0		Torrelavega[10]	99.5	
Tolosa[3]	94.0		Sevilla	98.8	0.5
Lujar[7]	94.2		Malaga	99.2	
Eibar[3]	94.6		Archanda	99.2	
Valencia	95.1	1.2	Aitana[1]	99.7	
Sollube[9]	95.3	3			

1) Alicante; 2) Mallorca; 3) Guipuzcoa; 4) Murcia; 5) Sevilla; 6) Zaragoza; 7) Granada; 8) Oviedo; 9) Vizcaya; 10) Santander.

FOREIGN SERVICE

Madrid-Arganda (G.C: 03.31W/40.18N):

kHz	m	kW	kHz	m	kW	kHz	m	kW	kHz	m	kW
6130	48.94	100	9360	32.05	20/50	9760	30.74	20/50			
6140	48.86	100	9370	32.01	100	11710	25.62	100			
7105	42.22	100	9570	31.35	100	15420	19.45	100			

EUROPEAN AND OVERSEAS SERVICES

TO EUROPE

Spanish	kHz
13.00-22.00	6140, 7105 9570
To Eastern Europe	
05.30-10.30	9760
11.00-16.00	9760
16.30-21.30	9360

TO MOROCCO

Spanish	kHz
07.30-08.30	6130
11.45-12.45	6130

TO GUINEA

Spanish	kHz
07.30-08.00	15420

Spanish	kHz
11.00-11.30	15420
18.00-22.45	9370
15.00-22.45 (Sun)	9370
To Canary Islands	
22.00-24.00	6130, 9760

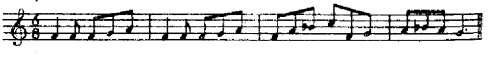
TO USA/CANADA

English	kHz
01.00-01.45	6130, 9760
02.00-02.45	6130, 9760
03.00-03.45	6130, 9760

TO LATIN AMERICA

Spanish	kHz
23.00-05.00	9360, 9570 11710, 15420

ANN: E: "This is the Voice of Spain broadc. from the Spanish National Radio" — **INT-SIG:** Gong and the following tune:



V. the following stations have their own QSL-cards: 584 (Madrid), 737 (Barcelona), 683 (Sevilla), 854 (Murcia), 638 (La Coruña), 548 (Oviedo), 773kHz (San Sebastian). Reception reports to be sent direct to these stations. In order to obtain a QSL-card it is preferable to report a regional prgr. **Reg. Prgr's:** 06.05-07.00, 09.05-10.00, 12.05-13.00, 17.30-18.00, 19.25-20.00, 20.05-20.30 and 23.10-24.00.

CADENA AZUL DEL MOVIMIENTO

The Cadena Azul del Movimiento belongs to the Secretaria General del Movimiento.
ADDR: Generalisimo 142 and Reina 33, Madrid. Te: 2350640.

STATIONS	Call	kHz	m	kW	h. of tr.
La Voz de Valladolid	EFE- 1	1570	191.6	1	07.00-23.30
La Voz de Palencia	EFE- 4	836	358.9	2	07.00-23.00
La Voz de León	EFE- 5	1155(V)	259.7	2	07.00-23.00
La Voz de Extremadura	EFE- 6	1133	264.8	5	07.00-23.00
La Voz de Alicante	EFE- 8	1570	191.6	2	06.45-23.30
La Voz de Alava	EFE-10	1570	191.6	1	07.00-15.30
La Voz de Madrid	EFE-14	1097	273.5	20	05.55-03.00
La Voz de Levante	EFE-17	1570	191.6	5	07.00-23.30
La Voz de Castellon	EFE-19	1133	264.8	1	07.00-23.00
La Voz del Principado de Asturias	EFE-22	1133	264.8	5	07.00-01.00
La Voz de Guipuzcoa	EFE-23	1097	273.5	5	07.00-23.00
La Voz de Cantabria	EFE-25	1570	191.6	2	07.00-24.00
La Voz de Vigo	EFE-31	1133	264.8	5	07.00-24.00
La Voz del Mediterraneo	EFE-33	1133	264.8	5	07.00-24.00
La Voz de Andalucia	EFE-58	1570	191.6	15	07.00-23.30
La Voz de Navarra	EFE-57	1133	264.8	5	07.00-17.00 20.00-23.01

Addresses:
EFE-1: Angustias 1, Valladolid
EFE-4: Becerro de Bengoa s/n, Palencia
EFE-5: Ordoño II 28, León
EFE-6: General Primo de Rivera 1, Cáceres
EFE-8: Angel Lozano 14, Alicante
EFE-10: Calvo Sotelo 34, Vitoria
EFE-14: Ayala 15, Madrid 1
EFE-17: Pascuál y Genis 27, Valencia
EFE-19: Av. Cermuda y Valasco s/n, Castellon
EFE-22: Asturias 9, Oviedo
EFE-23: Victor Pradera 12, San Sebastian
EFE-25: Pasaje del Arcillero 2, Santander
EFE-31: Garcia Barbon 3, Vigo (Pontevedra)
EFE-33: Hermanos Landa 21, Tarragona
EFE-57: Ramon Villoslada 17, Pamplona
EFE-58: Buen Pastor 4, Córdoba

CADENA AZUL DE RADIODIFUSION (C.A.R.)

The Cadena Azul del Movimiento belongs to the Delegación Nacional de Juventudes. **ADDR:** Reina 33, Madrid. **Te:** 2312404. **Cable:** Cadenazul — **L.P:** Dir. Gen: E. Pérez de Lama. Subdir. Gen: E. Fernández Vázquez. Secr. Gen: E. Angel Ruiz Butrón. Ing. Jefe: P. Ampuero. Dir. Foreign Rel: J. Carlos Arévalo.
STATIONS: Radio Juventud de.....

Medium Waves:	Call	kHz	m	kW	H. of tr.
1) Soria	EFJ-2	1574	190.6	2	09.00-22.00
2) Cádiz	EFJ-5	1097	273.5	2	06.00-23.00
3) Galicia	EFJ-11	1385	216.6	2	06.00-24.00
4) Barcelona	EFJ-15	1025	292.6	5	05.00-01.00
5) Murcia	EFJ-19	1133	264.8	2	06.00-23.00
6) Albacete	EFJ-23	1574	190.6	2	06.00-23.00
7) Almeria	EFJ-25	1133	264.8	2	06.00-23.00
8) Ponferrada	EFJ-29	1133	264.8	2	06.00-01.00
9) Béjar	EFJ-38	1570	191.6	2	08.00-22.00
10) Asturias	EFJ-41	1097	273.5	2	06.00-23.30
11) Vizcaya	EFJ-43	1133	624.8	2	06.00-24.00
12) Baleares	EFJ-45	1385	216.6	2	07.00-23.00
13) Zaragoza	EFJ-46	1133	264.8	5	06.00-23.00
14) La Rioja	EFJ-50	1133	264.8	1	07.00-23.00
15) Huelva	EFJ-51	836	358.9	5	06.00-01.00
16) Burgos	EFJ-54	1133	264.8	2	06.00-24.00
17) Gibraltar	EFJ-55	1262	237.7	1	06.00-23.00
18) Málaga	EFJ-56	1133	264.8	5	24 h

FM: All st's 0.25kW exc. EFJ-1 = 1kW;

	Call	MHz		Call	MHz
España (Madrid)	EFJ-1	89.7 a	Béjar	EFJ-38	99.9 p
			Asturias	EFJ-41	88.8 q
Soria	EFJ-2	89.7 b	Eibar	EFJ-42	88.8 r
Igualada	EFJ-4	89.4 c	Vizcaya	EFJ-43	96.6 g
Cádiz	EFJ-5	95.1 d	Torrelavega	EFJ-44	89.4 s
Almansa	EFJ-6	91.8 e	Baleares	EFJ-45	88.8 m
Plasencia	EFJ-7	88.8 f	Zaragoza	EFJ-46	94.5 d
Galicia	EFJ-11	96.9 g	La Rioja	EFJ-50	88.8 m
Sabadell	EFJ-12	89.1 h	Huelva	EFJ-51	95.0 n
San Feliu	EFJ-14	89.1 h	Aranda	EFJ-52	90.0 d
Barcelona	EFJ-15	89.7 i	Miranda	EFJ-53	89.7 g
Murcia	EFJ-19	92.1 d	Gibraltar	EFJ-55	99.4 d
Barbastro	EFJ-21	90.0 k	Málaga	EFJ-56	92.5 *
Albacete	EFJ-23	91.8 d	Canarias	EFJ-57	93.9 t
Almeria	EFJ-25	88.9 d	Morón	EFJ-61	87.9 u
Cartagena	EFJ-26	89.0 m	Calatayud	EFJ-62	89.4 a
Ponferrada	EFJ-29	95.6 n	Burgos	EFJ-63	93.6 g
Talavera	EFJ-37	89.4 o			

a) 08.00-23.00; b) 09.00-22.00; c) 06.30-21.30; d) 06.00-23.00; e) 08.00-13.00 & 17.00-21.00; f) 08.00-15.00 & 18.00-23.00; g) 06.00-24.00; h) 09.30-21.30; i) 07.00-01.00; k) 11.00-14.00 & 18.30-23.00; m) 07.00-23.00; n) 06.00-01.00; o) 11.00-14.00 & 18.30-21.30; p) 08.00-22.00; q) 06.00-23.30; r) 10.00-23.00; s) 09.30-22.00; t) 07.00-01.00; u) 07.00-22.00.

Addresses:
1) Aguirre 4, Soria.
2) López Pinto 5, Cádiz.
3) Plaza de Mendez Nuñez s/n, La Coruña.
4) Via Augusta 17-19, Barcelona 6.
5) Avda. Alferceces Provisionales 8, Murcia.
6) Dionisio Guardiola 31, Albacete.
7) Plaza San Fernando 4, Almeria.
8) Ave Maria 9, Ponferrada (León).
9) Rodeos del Castañar 1, Béjar (Salamanca).
10) Dorado 11, Sama de Langreo (Asturias).
11) Apt. 998, Bilbao.
12) Apt. 667, Palma de Mallorca.
13) Ave. Calvo Sotelo 7, Zaragoza.
14) Ave. de Numancia 34, Calahorra (Logroño).
15) Gran Via 1, Huelva.
16) San Francisco s/n, Aranda de Duero (Burgos).
18) Alameda de Colón 32, Málaga.

ANN: Nat. Sce: "Transmite la Cadena Azul de Radiodifusión". Local Service: "Transmite Radio Juventud de....., Emisora de la Cadena Azul de Radiodifusión" — **INT-SIG:** Xylophone — **V.** by letter. **FI:** By own recourses — **PUB:** "CAR" (monthly).

SOCIEDAD ESPAÑOLA DE RADIODIFUSION (Comm.)

ADDR: Av. de José Antonio 32, Madrid 13. **Cable:** SER. **Telex:** 7638 E. **Te:** 2221181 — **L.P:** Dir. Gen: E. Fontán. Dir. Gen. Adjoint: R. Varela. Dir. Tec: J. Galindo. Dir. Prgr: M. R. Cano. Dir. Foreign Rel: B. Moreno — **Reg. Sce:** Barcelona-10: Caspe 6; Dir: M. Tarin — Valencia-2: D. Juan de Austria 3; Dir: V. Gomez Torre — Sevilla: R. González Abreu 4; Dir: F. Machado — Zaragoza: Av. Marina Moreno 21; Dir: J. Muro.

Main Stations:	Call	kHz	kW	H. of tr.
1) R. Alcira	EAJ54	1520	2	06.30-23.30
2) R. Algeciras	EAJ55	1412	2	06.50-23.00
3) R. Alicante	EAJ31	1520	2	06.30-00.00
4) R. Barcelona	EAJ1	827	5	03.00-02.55
5) R. Bilbáo	EAJ28	1412	5	05.00-01.00
6) R. Cádiz	EAJ59	1475	2	07.00-23.00
7) R. Extremadura	EAJ52	1106	2	06.45-00.00
8) R. Ceuta	EAJ46	1106	2	12.00-24.00
9) R. Galicia	EAJ4	1412	2	06.00-23.00
10) R. Madrid	EAJ7	800	20	06.00-03.00
11) R. Mallorca	EAJ13	1475	2	06.00-23.00
12) R. Reus	EAJ11	1475	2	06.00-00.15
13) R. San Sebastián	EAJ8	1025	5	06.52-00.15
14) R. Sevilla	EAJ5	809	5	06.00-02.00
15) R. Valencia	EAJ3	1259	5	06.00-01.00
Associated stations:				
16) R. Albacete	EAJ44	1520	2	06.30-23.00
17) R. Alcoy	EAJ12	1106	2	06.30-24.00
18) R. Almeria	EAJ60	1475	2	06.40-23.30
19) R. Antequera	EAJ26	1106	2	07.00-23.00
20) R. Asturias	EAJ19	1475	2	06.45-23.00
21) R. Castellón	EAJ14	1412	2	06.45-03.00
22) R. Castilla	EAJ27	1412	2	06.55-23.00
23) R. Cuidad Real	EAJ65	1412	2	06.45-23.00
24) R. Coruña	EAJ41	1106	2	06.45-00.30
25) R. Gandia	EAJ23	1475	2	06.50-23.00
26) R. Gerona	EAJ38	1520	2	06.00-24.00
27) R. Gijón	EAJ34	1412	2	06.45-23.10
28) R. Granada	EAJ16	1412	2	06.40-01.00
29) R. Huesca	EAJ22	1106	2	06.45-23.00
30) R. Jaén	EAJ61	1520	2	06.00-23.00
31) R. Jerez	EAJ58	1520	2	06.50-23.00
32) R. Las Palmas	EAJ50	953	20	07.00-01.00
33) R. León	EAJ63	1106	2	06.45-00.15
34) R. Lérida	EAJ42	1520	2	06.45-23.00
35) R. Lugo	EAJ68	1520	2	06.45-23.00
36) R. Manresa	EAJ51	1106	2	06.45-00.15
37) R. Melilla	EAJ21	1520	1	08.00-24.00
38) R. Murcia	EAJ17	1412	2	06.00-00.30
39) R. Orense	EAJ57	1106	2	
40) R. Panadés	EAJ35	1106	2	06.45-22.15
41) R. Pontevedra	EAJ40	1475	2	06.45-00.00
42) R. Requeté	EAJ6	1412	2	06.45-23.00
43) R. Rioja	EAJ18	1475	2	06.55-23.00
44) R. Salamanca	EAJ56	1106	2	06.55-23.00
45) R. Santander	EAJ32	1475	2	06.30-24.00
46) R. Segovia	EAJ64	1412	2	06.45-23.00
47) R. Toledo	EAJ49	1520	2	07.55-24.00
48) R. Valladolid	EAJ47	1259	2	06.50-00.20
49) R. Vigo	EAJ48	1520	2	06.45-00.15
50) R. Vitoria	EAJ62	1106	2	06.55-23.00
51) R. Zamora	EAJ72	1475	2	06.45-00.15
52) R. Zaragoza	EAJ101	872	20	06.30-04.00

FM st's: All st's 1kW exc. 10) (10kW) and 49) (2kW).
H. of tr: 09.00-23.00 for all st's.

Main stations:

MHz	MHz	MHz	MHz	MHz	MHz
1) 95.7	4) 93.9	7) 96.9	10) 93.9	12) 89.7	14) 97.2
2) 95.7	5) 89.5	9) 95.0	11) 96.6	13) 97.2	15) 89.7
3) 88.5	6) 92.2				

Spain

Associated stations:

MHz	MHz	MHz	MHz	MHz
16) 89.4	23) 92.1	30) 93.3	40) 96.3	46) 96.6
17) 96.3	24) 89.4	31) 98.5	41) 89.1	47) 90.9
18) 93.6	25) 96.6	35) 91.8	42) 92.1	49) 99.2
19) 96.3	26) 90.0	36) 95.1	43) 91.8	50) 92.5
20) 90.3	27) 90.0	38) 91.2	44) 96.9	51) 89.9
21) 95.7	28) 95.4	39) 87.6	45) 91.2	52) 95.4
22) 89.1	29) 93.3			

Addresses:
1) Plaza del Caudillo 51, Alcira (Valencia)
2) Riuz Tagle 25, Algeciras (Cádiz)
3) Garcia Morato 55, Alicante
4) Caspe 6, Barcelona 10
5) Apt. 1117, Bilbáo
6) José del Toro 10, Cádiz
7) Teniente Coronel Yagüe 2, Badajoz
8) Alfau 20, Ceuta
9) Plaza de la Universidad 5, Santiago de Compostela
10) Avenida de José Antonio 32, Madrid-13
11) Paz 35, Palma de Mallorca (Islas Baleares)
12) Arrabel de Santa Ana 54, Reus (Tarragona)
13) Avenida de España 27, San Sebastian
14) Rafael Gómez Abréu 4, Sevilla
15) Don Juán de Austria 3, Valencia
16) Mayor 53, Albacete
17) Beato Nicolás Factor 2, Alcoy (Alicante)
18) Arapiles 2, Almeria
19) Ramón y Cajal 41, Antequera (Malaga)
20) Asturias 19, Oviedo
21) Moyano 1, Castellón
22) Paseo del Espolón 1, Burgos
23) Avenida de los Mártires 10, Ciudad Real
24) Plaza de Orense 3, La Coruña
25) San Pascual 15, Gandia (Valencia)
26) Forsa 8, Gerona
27) Moros 37, Gijón (Asturias)
28) Santa Paula 2, Granada
29) Coso Alto 55, Huesca
30) Bernabé Soriano 18, Jaén
31) Augustias 11, Jerez de la Frontera (Cádiz)
32) Triana 134 bis, Las Palmas de Gran Canaria (Islas Canarias)
33) Villa-franca 8, León
34) Carmen 26, Lérida
35) Plaza de Angel Fernandez Gomez 5, Lugo
36) Plaza General Mola 3, Manresa (Barcelona)
37) O'Donnell 26, Melilla
38) Lucas 4, Murcia
39) Tiendas 9-11, Orense
40) Rambla del Caudillo 10, Villanueva y Galtrú (Barcelona)
41) Peregrina 35-37, Pontevedra
42) Avenida de Franco 4, Pamplona
43) Avenida de Portugal 12, Logroño
44) Rosa 2, Salamanca
45) Marcelino S. de Sautuola 4, Santander
46) San Agustin 5, Segovia
47) Navarro Ledesma 4, Toledo
48) Calvo Sotelo 2, Valladolid
49) Principe 53, Vigo (Pontevedra)
50) Postas 19, Vitoria
51) Apt. 8, Zamora
52) Avenida Marina Moreno 21, Zaragoza

ANN: Nat. Sce: "Transmite la Sociedad Española de Radiodifusion". **Local Service:** "Transmite R.... de la Sociedad Española de Radiodifusion" — **INT-SIG:** Harp, piano — **V.** by letter. Recordings accepted — **PUB:** "ONDAS" fortnightly.

CADENA DE ONDAS POPULARES ESPAÑOLAS

ADDR: Montesa 27, Madrid 6. **Te:** 2760527. **L.P:** Dir. Gen: F. J. Sacristan. Dir. Tec: J. de Acuña Muñoz.

STATIONS:	Call	kHz	kW	MHz	kW
Madrid*	EAK- 1	1268	20	97.2	1
Sevilla	EAK- 2	1502	2	99.6	1
Burgos	EAK- 3	1502	2	95.4	1
Pamplona	EAK- 4	1502	2	87.9	1
Valencia	EAK- 5	1430	2	89.7	1
Zaragoza	EAK- 6	1394	2	97.8	1
Barcelona*	EAK- 7	1430		99.3	1
Valladolid	EAK- 9	1430	2	89.7	1
Malaga	EAK-11	1430	2	89.4	1
Murcia	EAK-12	1502	2	89.7	1
Bilbao	EAK-13	1502	2	97.8	1
Huelva	EAK-14	1430	2	88.6	1
Lerida	EAK-15	1430	2	96	1
Jerez de la Frontera	EAK-17	1394	2		
Mallorca (Palma)	EAK-18	1268	2	97.5	1
Salamanca	EAK-19	1502	2	90	1
Badajoz	EAK-21	1394	2	89.1	1
Ciudad Real	EAK-22	1502	2	93.6	1
Puertollano (Ci. Real)	EAK-23	1430	2	97.5	1
Ibiza (Baleares)	EAK-24	1502	2	89.1	1
Leon	EAK-25	1430	2	93.3	1
Zamora	EAK-26	1394	2	94.9	1
Lorca (Murcia)	EAK-29	1430	2	97.5	1
Alicante	EAK-31	1394	2	95.4	1
Vigo	EAK-33	1394	2	87.8	1
Granada	EAK-39	1502	2	88.2**	1
Jaen	EAK-40	1430	2	88.8	1

STATIONS:	Call	kHz	kW	MHz	kW
El Ferrol (Coruña)	EAK-43	1502	2	95	1
San Sebastian	EAK-44	1394	2	88.5	1
Albacete	EAK-46	1394	2	95.4	1
Astorga (Leon)	EAK-48	1394	2	87.6	1
Reus (Tarragona)	EAK-53	1394	2	89.7	1
Caceres	EAK-57	1430	2	88.6	1
Lugo	EAK-58	1430	2	90	1
Orense	EAK-59	1502	2	92.4	1
Loyola (Guipuzcoa)	EAK-66			99.8	1
Menorca (Cuidadela)	EAK-67	1430	2	90	1
Santander	EAK-68	1394	2	88.4	1
Almeria	EAK-69	1394	2	97.2	1
La Plana (Castellón)	EAK-78	1430	2	88.5	1
Figueras (Gerona)	EAK-82	1430	2	89.4	1
Cordoba	EAK-90	1394	2	87.9	1
Asturias (Aviles)	EAK-91	1502	2	89.1	1

Addresses:
EAK-2: Trajano 39, Sevilla.
EAK-3: Plaza de Alonso Martinez 2, Burgos.
EAK-4: Santo Domingo, Pamplona.
EAK-5: Jorge Juan 5, Valencia.
EAK-6: Plaza de la Seo 6, Zaragoza.
EAK-12: Gonzáles Adalid 21, Murcia.
EAK-13: Astarloa 52, Bilbao.
EAK-14: Calle del Puerto 73, Huelva.
EAK-15: Academia 17, Lérida.
EAK-17: Apt. 248, Jerez de la Frontera.
EAK-18: Seminario 4, Palma de Mallorca (Islas Baleares) **English** 10.00-11.00, 20.00-21.00; **German** 19.00-20.00; **Swedish** 19.00-20.00 (FM only).
EAK-19: Plaza Mayor 35, Salamanca.
EAK-21: Menacho 16, Badajoz.
EAK-22: Avda le los Mártires 20, Ciudad Real.
EAK-23: Juan Bravo 6, Puertollano (Ciudad Real).
EAK-24: Iglesia de Santa Cruz, Ibiza (Islas Baleares).
EAK-25: Lope de Vega 1, León.
EAK-29: José Antonio 16, Lorca (Murcia).
EAK-31: Aureliano Ibarra 3, Alicante.
EAK-37: Primo de Rivera 33, Benavente (Zamora).
EAK-42: Arcipreste Jose Ariza 1, Velez-Málaga (Málaga).
EAK-44: Bengoechea 5, San Sebastian.
EAK-46: Ca. Mayor 18, Albacete.
EAK-48: Palacio Episcopal, Astorga (León).
EAK-53: San Pedro Apostol 6, Reus (Tarragona).
EAK-58: R. Popular de Lugo, Lugo.
EAK-67: Apartado 121, Ciudadela (Menorca, Islas Baleares).
EAK-68: Rualasal 23, Santander.
EAK-78: R. Popular de La Plana, Castellón.
EAK-82: San Lázaro 21, Figueras (Gerona).
EAK-90: Gran Capitán 1, Montilla (Cordoba).
EAK-91: José Cueto 1, Avilés (Asturias).

CADENA DE EMISORAS SINDICALES (C.E.S.)

ADDR: Huertas 73, Edificio "Pueblo", Madrid. **Te:** 2172162 — **L.P:** Dir. Gen: J. Ramón Alonso.

STATIONS: Name/Location	Call	kHz	MHz	kW	H. of Tr.
Radio Teruel, Teruel	ECS-1	1484	88.5	5	07.00-23.00
R. Badajoz, Badajoz	ECS-2	1025	94.9	5	07.00-23.00
Radio Gredos, Avila	ECS-3	1133	87.6	15	07.00-23.00
Voz de Granada, Granada	ECS-5	836	97.8	5	07.00-00.30
Radio Tortosa, Tarragona	ECS-6	1570	87.9	2	07.00-22.00
Voz de Lerida, Tarrega	ECS-7	1570	87.9	2	07.00-23.00
Voz del Guadalquivir, Sevilla	ECS-8	1133	90.0	5	06.00-23.00
Voz de Jaén, Jaén	ECS-9	1133	93.3	5	07.00-23.00
Voz de La Mancha, Socuéllamos	ECS-10	1570	88.5	2	07.00-24.00
R. Centro, Madrid	ECS-11	1385	88.2	20	06.00-24.00
Voz de Cordoba, Cabra	ECS-12	1097	95.1	2	06.00-23.00
Voz de Ciudad Real, Ciudad Real	ECS-13	1133	95.7	3	07.00-23.00
Voz de Gerona, Gerona	ECS-14	1570	94.9	2	06.44-24.00
Radio Costa del Sol Marbella	ECS-15	1570	87.6	3	07.00-23.00
Voz de Lugo, Monforte	ECS-17	1133	88.8	2	07.00-23.00
Voz del Miño, Orense	ECS-18	1570	95.1	2	07.00-23.00
Voz de Zamora, Zamora	ECS-19	1133	88.8	2	07.00-23.00

Addresses: ECS-14: Gran Via Jaime I 30, Gerona; ECS-18: Apt. 268, Orense.

F.M. only:		MHz	kW
ECS-21	R. Tudela, Tudela	88.2	0.5
ECS-22	R. Costa Dorada, Ulldecona	95	0.5
ECS-23	R. Peñarroya, Córdoba	93.4	0.5
ECS-24	Voz del Valle, Orotava	89.58	0.5
ECS-25	Voz de Andujar, Jaén	89.5	0.5
ECS-26	La Voz de Martos, Jaén	88	0.5
ECS-27	R. Coral, Crevillente	96.9	
ECS-28	Voz del Bajo Aragon, Caspe	89.1	0.5
ECS-29	Voz del Cinca, Fraga	95	
ECS-30	Radio Ronda	99.3	
ECS-31	Radio Benidorm, Alicante	96.9	
ECS-32	Radio Maresma, Mataró		
ECS-33	Voz de Aviles, Asturias	87.8	0.5

		MHz	kW
ECS-34	Voz del Maestrazgo, Morella	99.6	0.5
ECS-35	Radio Hescar, Granada	99.4	0.5
ECS-36	Voz de Valencia, Utiel	87.9	0.5
ECS-37	Radio Sur, Coin	92.4	0.05
	Radio Jumilla, Murcia	88	0.5
	Radio Tafalla, Navarra		

V. by letter.

RUEDA DE EMISORAS RATO
ADDR: Jorge Juan, 27 Madrid. **Te:** 2760407.
MAIN STATION: EAJ49 R. Toledo 1520kHz 197.4m. 2kw.
Branch St's: EAJ60 R. Almeria[2] 1475kHz, EAJ26 R. Antequera[3] 1106kHz. EAJ35 R. Panadés[4] 1106kHz.
D. PRGR: EAJ49: 08.00-23.30; EAJ60 and EAJ5: 07.00-24.00; EAJ26 07.00-23.30. **N:** every h.
INT-SIG: Electric gong (two tones) — **V.** by letter.
[1]Navarro Ledesma 4, Toledo — [2]Arapiles 2, Almeria — [3]Ramon y Cajal 41, Antequera (Malaga) — [4]Rambla del Caudillo 10, Villanueva y Geltru (Barcelona).

RADIO ESPAÑA (Comm.)
ADDR: Apartado Correos 50.753, Madrid 13. **Te:** 222.83.20. **Cable:** Radiospaña — **HOME SCE:** Madrid EAJ2 917kHz 327.2m 12kW: 07.00-01.00 — **ANN:** "EAJ2 R. España, Madrid".

R. ESPAÑA DE BARCELONA
ADDR: Ramblas 126, Barcelona 2. **Te:** 2-22-0751 **HOME SCE:** EAJ15 1124kHz 266.9m 10kW: 06.00-02.00 — **V.** by letter. Recordings accepted.
Affiliated st's: EAJ38 R. Gerona 1520kHz — EAJ42 R. Lérida 1520 kHz, 2kW: 07.00-23.00 — EAJ51 R. Manresa 1106kHz 2kW.

COMPAÑIA DE RADIODIFUSION INTERCONTINENTAL (Comm.)
ADDR: Modesto Lafuente 42, Madrid-3. **Te:** 2544603. **Telex:** 27497. **Cable:** Ondatlantic — **L.P:** Dir. Gen. F. Serrano Suñer. Dir. Tec. J. Serrano Suñer. Dir. Prgr: P. Cabik.
STATIONS: EAJ-29 953kHz 314.8m 20kW — FM: 95.1MHz 1kW
HOME SCE: 05.00-24.00 (FM: 14.30-20.30).
ANN: "Aqui R. Intercontinental Madrid" — **INT-SIG:** Xylophone — **PUB:** Prgr. schedule (monthly), illustrated sheet.
STATIONS AFFILIATED:

	Call	kHz	m	kW	h of tr.
R. Córdoba	EAJ-24	1475	203.4	2	11.00-01.00
R. Onteniente	EAJ-30	1412	205.9	1	09.00-23.00
R. Miramar	EAJ-39	1520	197.4	5	06.00-01.00
R. Orense	EAJ-57	1412	205.9	3	09.30-18.00 20.00-24.00
R. Linares	EAJ-37	1106	271.2	2	11.00-01.00
R. Miramar F.M.	94.8MHz	1kW			

ADDR: EAJ24: Alfonso XIII 12, Córdoba; EAJ30: Plaza de J. Antonio 26, Onteniente (Valencia); EAJ39: Plaza de Cataluña 9, Barcelona 2; EAJ57: Tiendas 9-11, Orense; EAJ37: Benito Pérez Galdós 35, Linares (Jaén).

SWEDEN

L.T: GMT + 1 h — **Pr. L:** Swedish.

SVERIGES RADIO (Swedish Broadcasting Corporation)
(Non comm. semigov. broadc. corpo).
ADDR: Radiohuset, Oxenstiernsgatan, 2, Stockholm. Postal Addr: Box 955, Stockholm 1. **Te:** 670865 (local 631000). **Cable:** Broadcast.
L.P: Chmn. Board of Governors: P. Eckerberg. Dir. Gen: O. Rydbeck. Dep. Dir. Gen: K. E. Lundevall. Head of Dir. Gen's Office: N. P. Lindskog. Dir. Finance: vacant Dir. Staff: N. Ragnä. Dir. Eng: J. von Utfall. Dep. Dir. Eng: C. Wachtmeister. Dir. Prgr. (Radio): N. O. Franzén. Dep. Dir. Prgr. (Radio): P. Brunius. Dir. Prgr. (TV 1): H. Unsgaard. Dir. Prgr. (TV 2): O. Wallqvist. Coordinator TV 1 and TV 2: H. Dyfverman. Contr. Educ. Prgr: R. Lundgren. Contr. News Progr: P. M. Hamberg. Dep. Contr. News Prgr: G. Rügheimer. Legal Adviser: G. Hansson. Contr. Int. Rel: E. Ploman. Int. Secr: G. Dahlin. Head Press and Inf: Ph. von Krusenstierna.

TELEVERKETS CENTRALFORVALTNING
(The Central Administration of Swedish Telecommunications), Box 16065, 10322 Stockholm 16. **Te:** 236040. **Cable:** Gentel — **L.P:** Dir. Gen: B. Bjurel. Head Operational Dept: T. Larsson. Head of Section handling Broadc. matters: A. Rohdin.

STATIONS: Long and Medium Waves: * = st. carrying at night prgr.

Station	Prgr.	kHz	kW	Station	Prgr.	kHz	kW
Boden	3	1594	0.15	Mariestad	3	1394	0.15
Borås	1	1562	2	Motala	1	*191	600
	3	1394	0.15	Norrköping	1	1562	1.5
Eskilstuna	1	1562	0.5	Piteå	3	1394	0.15
Falkenberg	1	1448	0.15	Porjus	1	1529	0.075
Falun	1	1223	100		3	1594	0.075
Gävle	1	1448	0.5	Stockholm	1	773	150
Göteborg	1	980	150		3	1394	0.25
	3	1394	0.25	Sundsvall	1	593	150
Halmstad	1	1562	2		3	1394	0.15
	3	1394	0.15	Säffle	1	1448	0.15
Hudiksvall	1	1448	1.5		3	1594	0.15
	3	1394	0.15	Söderhamn	1	1562	0.06
Hälsingborg	1	1448	1.5		3	1394	0.15
Hörby	1	1178	100	Trollhättan	1	1448	2
Jönköping	1	1448	2		3	1594	0.15
	3	1594	0.2	Uddevalla	1	1562	0.5
Kalmar	1	1562	2		3	1394	0.15
Karlskrona	1	1448	1.5	Umeå	1	1448	2
Karlstad	1	1562	1.5		3	1594	0.15
	3	1394	0.15	Uppsala	1	1562	2
Kiruna	1	1562	0.5	Varberg	1	1562	2
	3	1394	0.15		3	1394	0.15
Kristinehamn	1	1448	0.15	Visby	1	1448	0.5
	3	1594	0.15	Vänersborg	3	1394	0.15
Ludvika	3	1394	0.15	Västervik	3	1394	0.15
Luleå	1	182	10	Västerås	1	1448	2
	3	1394	0.15	Örebro	1	1562	1.5
Malmberget	1	773	2	Örnsköldsvik	1	1562	1.5
	3	1394	0.15		3	1394	0.15
Malmö	1	1562	2	Östersund	1	719	150

Short Waves: Hörby 2 × 100kW tr's: 6065kHz 49.46m — 9625kHz 31.17m.

FM:	Prgr.	MHz	kW	FM:	Prgr.	MHz	kW
Arvidsjaur	1	89.4	60	Hörby	3	97.0	60
	2	94.2	60	Idre(s)	1	88.0	0.03
	3	97.1	60		2	91.1	0.03
Björkliden(s)	1	88.0	0.3		3	93.4	0.03
	2	93.9	0.3	Karesuando	1	87.6	0.3
Boden	1	90.6	60		2	90.0	0.3
	2	94.5	60	Karlskrona	1	89.1	10
	3	99.4	60		2	95.0	10
Bollnäs	1	88.4	60		3	97.7	10
	2	91.8	60	Karlstad	1	90.5	3
	3	96.0	60		2	94.2	3
Borlänge	1	89.4	60		3	96.5	3
	2	93.0	60	Kiruna	1	89.1	60
	3	97.7	60		2	92.7	60
Borås	1	88.5	10		3	96.4	60
	2	94.6	10	Kvikkjokk/ Tavvevare(s)	1	94.0	0.30
	3	97.9	10		2	97.3	0.03
Bäckefors	1	92.7	60		3	99.9	0.03
	2	96.8	60	Kvjkkjokk/ Arrevare(s)	1	89.7	0.03
	3	96.8	60		2	92.0	0.03
Drevdagen(s)	1	90.2	0.03		3	96.1	0.03
	2	94.3	0.03	Laisvall(s)	1	90.8	0.03
	3	99.9	0.03		2	95.1	0.03
Emmaboda	1	93.0	60		3	98.0	0.03
	2	96.7	60	Lycksele	1	92.9	60
	3	99.8	60		2	95.4	60
Enafors(s)	1	92.8	0.03		3	98.7	60
	2	96.2	0.03	Malmö	1	87.9	3
Funäsdalen(s)	1	89.6	0.03		2	93.3	3
	2	92.9	0.03		3	98.0	3
	3	99.9	0.03	Mora	1	92.2	10
Gäddede(s)	1	88.9	0.03		2	96.7	10
	2	96.2	0.03		3	99.0	10
Gällivare	1	88.3	60	Motala	1	91.1	3
	2	94.9	60		2	93.8	3
	3	98.5	60		3	98.2	3
Gävle	1	88.1	60	Norrköping	1	90.0	60
	2	97.4	60		2	93.5	60
	3	99.8	60		3	98.7	60
Göteborg	1	89.3	60	Nässjö	1	89.6	60
	2	96.3	60		2	92.1	60
	3	99.4	60		3	99.0	60
Halmstad	1	87.7	60	Pajala	1	87.9	60
	2	91.2	60		2	93.0	60
	3	95.4	60		3	95.9	60
Haparanda	1	91.3	60	Rörbäksnäs(s)	1	88.3	0.03
	2	93.6	60		2	91.2	0.03
	3	97.9	60		3	93.6	0.03
Hemavan(s)	1	90.5	0.03	Seitevare(s)	1	90.9	0.03
	2	94.4	0.03		2	93.7	0.03
	3	97.3	0.03		3	96.8	0.03
Hälsingborg	1	89.5	3	Skellefteå	1	93.8	10
	2	95.7	3		2	96.3	10
	3	98.7	3		3	99.9	10
Höljes(s)	1	88.9	0.03	Skövde	1	88.9	60
	2	93.3	0.03		2	95.1	60
	3	99.9	0.03		3	97.5	60
Hörby	1	88.8	60				
	2	92.4	60				

***THE SWEDISH DX FEDERATION** is an organization with more than 30 Swedish dx- and shortwave clubs. The joint monthly dx-magazine of all these clubs is called:
***ETER-AKTUELLT.** The magazine is printed in offset, and is now one of the leading dx-magazines in Scandinavia. Many well known dx-ers are regular contributors.
***INFORMATION** about The Swedish DX Federation and a sample copy of ETER-AKTUELLT can be obtained from our international secretary. If you are interested, please send one IRC for postage.
THE SWEDISH DX FEDERATION, international secretary, Box 19008, S-200 73 MALMO, Sweden.

Sweden

FM:	Prgr.	MHz	kW
Sollefteå	1	88.2	60
	2	93.5	60
	3	98.1	60
Stockholm	1	92.4	60
	2	96.6	60
	3	99.3	60
Stordalen(s)	1	89.6	0.03
	2	92.3	0.03
Storuman	1	87.6	60
	2	91.2	60
	3	99.0	60
Strömstad(s)	1	90.3	0.03
	2	93.6	0.03
	3	96.0	0.03
Sundsvall	1	92.7	60
	2	96.9	60
	3	99.2	60
Sunne	1	90.9	60
	2	94.5	60
	3	98.5	60
Sveg	1	90.6	60
	2	94.9	60
	3	97.9	60
Sysslebäck(s)	1	88.8	0.3
	2	92.5	0.3
Torneträsk(s)	1	87.6	0.03
	2	98.0	0.03
Trollhättan	1	91.9	3
	2	95.8	3
	3	99.8	3
Täsjö	1	89.8	60
	2	94.7	60
	3	97.5	60
Tärnaby(s)	1	88.9	0.03
	2	95.7	0.03
	3	98.2	0.03
Uddevalla	1	89.9	3
	2	93.1	3
	3	97.2	3

FM:	Prgr.	MHz	kW
Uppsala	1	90.3	3
	2	93.3	3
	3	96.2	3
Varberg	1	90.4	10
	2	93.6	10
	3	98.8	10
Vassijaure(s)	1	90.7	0.03
	2	95.1	0.03
Vietas(s)	1	89.9	0.03
	2	93.9	0.03
	3	97.4	0.03
Visby	1	87.6	15
	2	94.1	15
	3	97.2	15
Vislanda	1	88.0	10
	2	90.6	10
	3	94.7	60
Vännäs	1	88.5	60
	2	92.1	60
	3	95.8	60
Västervik	1	88.3	60
	2	91.8	60
	3	96.0	60
Västerås	1	90.7	60
	2	95.7	60
	3	98.0	60
Ånge	1	93.2	10
	2	95.6	10
	3	99.6	10
Örebro	1	87.9	60
	2	91.5	60
	3	99.6	60
Örnsköldsvik	1	90.8	3
	2	94.4	3
	3	97.8	60
Östersund	1	87.9	60
	2	91.5	60
	3	94.0	60

St's to open before July 1st, 1969:

FM:	Prgr.	MHz	kW
Finnveden	1	90.2	3
	2	94.2	3
	3	99.9	3
Karlshamn	1	90.3	3
	2	93.4	3
	3	98.3	3
Kisa	1	90.5	3
	2	93.2	3
	3	96.9	3
Osthammar	1	89.1	3
	2	92.8	3
	3	95.5	3
Ammarnäs(s)	1	90.7	0.03
	2	93.2	0.03
	3	99.6	0.03
Arjeplog(s)	1	91.8	0.03
	2	95.6	0.03
	3	99.7	0.03
Duved(s)	1	90.2	0.03
	2	95.4	0.03
	3	99.3	0.03
Gördalen(s)	1	89.2	0.03
	2	92.0	0.03
	3	98.8	0.03

FM:	Prgr.	MHz	kW
Jormvattnet(s)	1	88.0	0.03
	2	90.4	0.03
	3	98.0	0.03
Kallrör(s)	1	89.5	0.03
	2	95.7	0.03
	3	99.7	0.03
Kultsjön(s)	1	90.2	0.03
	2	93.7	0.03
	3	96.1	0.03
Ljungdalen(s)	1	90.0	0.03
	2	93.1	0.03
	3	96.8	0.03
Medstugan(s)	1	94.3	0.03
	2	97.6	0.03
	3	99.9	0.03
Tänndalen(s)	1	89.6	0.03
	2	92.9	0.03
	3	99.9	0.03
Umfors(s)	1	88.1	0.03
	2	92.6	0.03
	3	96.3	0.03

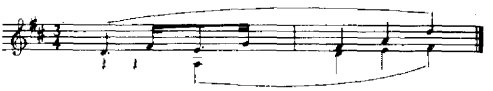
HOME SERVICE

FIRST PRGR: (netw. of Spoken Word, also during daytime serious music): 05.00 (Sun 06.00)–22.00 (approx).
N: 05.00(W), 05.30(W), 06.00(W), 06.30(W), 07.00, 10.00(W), 11.30, 13.00(W exc. Sat), 14.00, 15.00(W exc. Sat), 16.00, 17.30, 20,00(exc. Sat), 21.00—**Wrp** (incl. Forecast for Swedish Waters): 05.30, 07.00, 20.50; (excl. Swedish Waters): 11.25(W), 11.35(Sun), 17.25. Forecast for Swedish Waters only 12.00(W), 16.05.
Short Waves: 06.30–07.15 on 6065kHz, 11.30–12.15 on 9625kHz, 17.30–18.00 on 6065kHz.
Rlg. Prgr's: Morning Sce's: W: 05.20, 06.15. Evening prayer: D: 20.45. Sun. Divine Sce: 10.00, 16.10—**Concert:** D 08.00, 13.15(W), 14.10(Sat/Sun)—**Theatre:** 12.00(Sun), 12.15(Sat), 19.00(Sat/Thurs), 21.30(Thurs).

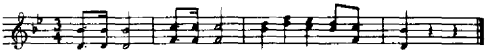
SECOND PRGR: (Education and Serious Music): During terms School broadcasts Mon–Fri 08.00–12.00 approx.—Adult Education: 07.00–08.00, 14.00–15.00(Sun), 14.00–16.00(Sat), 17.30–18.30(W). All evenings 18.30 to closing: Serious Music.

THIRD PRGR: Light music 24 h (incl. Night prgr's). Also on 191kHz after closing of First Prgr.
N: 22.00–22.05 and headlines one min. before the h W 04.59–20.59; Sun 09.59–20.59.
ANN: Nat prgr: "Sveriges Radio..." and the service, f. inst. "Sveriges Radio, program ett" — **INT-SIG:** 1st Prgr: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n" or, more frequently, birds changing each week.

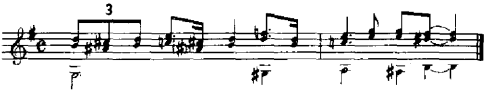
Home Service 1st Prgr:



Home Service 2nd Prgr:



Home Service, 3rd Prgr:



FOREIGN SERVICE

Stations: Hörby 100kW.

kHz	m	kHz	m	kHz	m	kHz	m
1178	254.7	11790	25.45	15275	19.64	17845	16.81
5990	50.08	11805	25.41	15310	19.60	21585	13.90
6065	49.46	11810	25.40	15420	19.46	21675	13.84
9625	31.17	11865	25.28	15445	19.43	21690	13.83
9760	30.74	11880	25.25	17760	16.89		
11705	25.63	11915	25.18	17770	16.88		
11765	25.50	15240	19.69	17800	16.85		

Areas: I = Europe; II = Middle East; III = Far East; IV = Africa; V = So. Asia; VI = Eastern No. America; VII = Western No. America; VIII = So. America.

Schedule Nov-March

English	Area	kHz/Beam
11.00-11.30	I/VI	*9625/11705(285°)
12.30-13.00	III/IV	9760(50°)/21690(183°)
14.00-14.30	VI/V	15240(98°)/21675*
16.00-16.30	VII/II	15310(325°)/17770(145°)
19.00-19.30	IV/II	15240(183°)11865(145°)
20.45-21.15	I/III	*6065/9625(50°)
22.45-23.15	III/VIII	11705(235°)/11810(50°)
23.15-23.45	I	*1178
00.30-01.00	VI	5990(285°)
02.00-02.30	VI	5990(285°)
03.30-04.00	VII	11705(325°)
05.15-05.45	I	*21675
French		
09.30-10.00	I/II	*9625/21690
15.00-15.30	V/I	15240(98°)/*21675
18.00-18.30	IV	15240(183°)
21.30-22.00	I/VIII	*6065/11705(235°)
03.00-03.30	VII	11705(325°)
05.45-06.15	I	*21675
German		
10.30-11.00	I	*9625/*21690
17.30-18.00	IV	15240(183°)
19.45-20.15	I	*6065
22.45-23.15	I	*1178
Russian		
08.30-09.00	I/III	*9625/11880(98°)
20.15-20.45	I/III	*6065/9625(50°)
22.15-22.45	I	*1178
Portuguese		
22.00-22.30	I/VIII	*6065/11705(235°)
00.30-01.00	VIII	11705(235°)
02.00-02.30	VIII	11705(235°)
Spanish		
09.00-09.30	I	*9625
00.00-00.30	VIII	11705(235°)
01.30-02.00	VIII	11705(235°)
Swedish		
06.30-07.15**a	I	*6065
10.00-10.30	I/II	*9625/*21690
11.30-12.10**	I/III	*9625/11705(285°)
13.00-13.30	III/IV	9760(50°)/21690(183°)
14.30-15.00	V/I	15240(98°)/*21675
16.30-17.00	VII/II	15310(325°)/17770(145°)
17.30-18.00**	I	*6065
18.30-19.00	II/IV	11865(145°)/15240(183°)
23.15-23.45	VIII/III	11705(235°)/11810(50°)
01.00-01.30	VIII/VI	11705(235°)/5990(285°)
04.00-04.30	VII	11705(325°)
04.45-05.15	I	21675*

*) omnidirectional aerial — **) relay Home Sce. 1st Prgr.
a) W only — N: at the beginning of each tr.

DX-PRGR: English: Tues 11.20, 12.50, 14.20, 16.20, 19.20, 21.05, 23.05, 23.35; Wed 00.50, 02.20, 03.50, 05.35. **French:** Tues 09.50, 15.20, 18.20, 21.50; Wed 03.20, 06.05. **German:** 10.50, 17.50, 20.05, 23.05. **Russian:** Wed 08.50, 20.35, 22.35. **Portuguese:** Wed 22.10; Thurs 00.40, 02.10. **Spanish:** Thurs 09.50, 21.50; Fri 00.20, 01.50.
ANN: E: "This is R. Sweden". G: "Hier ist R. Schweden". Fr: "Ici R. Suède". Sp. & P: "Aqui R. Suécia, Estocolmo". Sw: "Utlandsprogrammet, Sveriges Radio". Ru: "Govorit Stockgolm".

radio sweden

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SUÈDE
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PORTUGUESE . RUSSIAN . SWEDISH

and bringing News, Music and Feature Programmes over Radio Sweden's 100kW transmitters.
Special Programmes for DX-ers and Pop-Fans.

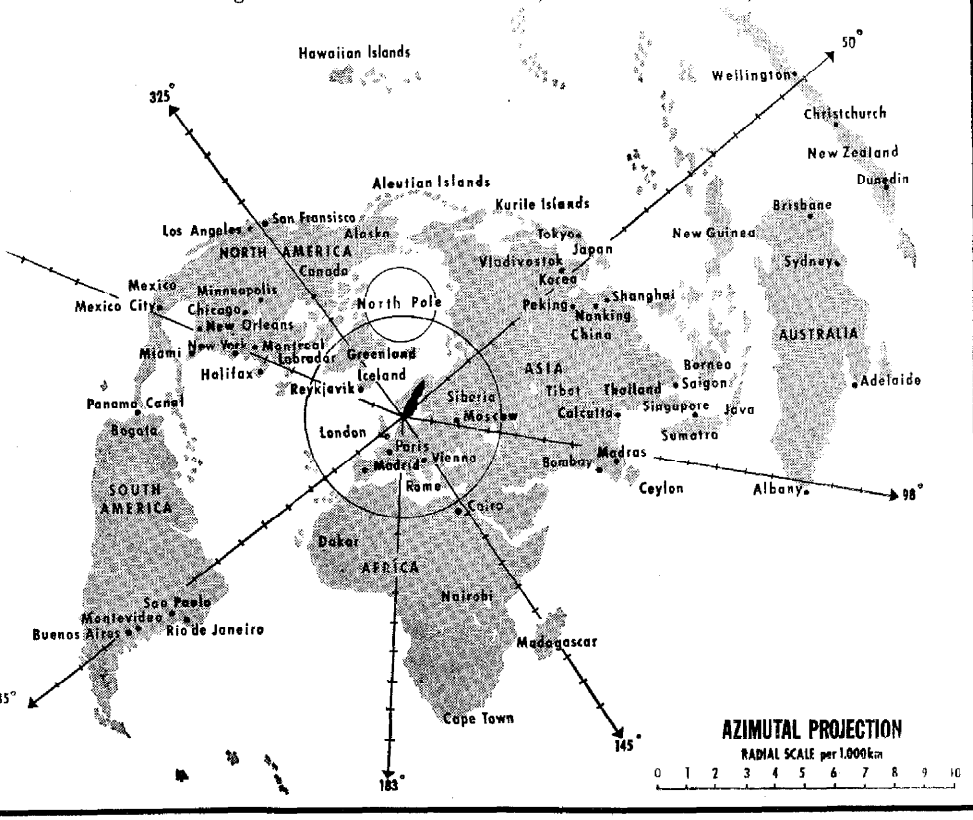
The transcription service

offers a wide range of recorded programmes about Sweden.

The television service

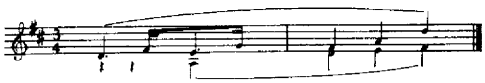
offers films about Sweden in different languages or with an international soundtrack.

Write in for Programme Schedule: Radio Sweden, S-10150 Stockholm 1, Sweden.



Sweden—Switzerland

INT-SIG: Foreign Sce: The opening notes from Carl Michael Bellman's "Storm och böljor tystnas re'n"



V. by QSL-card, folder and/or letter. R. Sweden will appreciate all letters and reports on reception of the transmissions. Prgr. schedules by writing to R. Sweden, Box 955, Stockholm 1.
PUB: Monthly: "Radio Sweden" in seven languages: English, German, French, Spanish, Portuguese, Russian, Swedish.

IBRA RADIO AB

(Non-Comm, Non-Gov. Christian)
ADDR: Box 821, Stockholm 1 — **Studios:** The Main studio is Sveavägen 34, Stockholm. **Cable:** "Ibra-Radio".
STATIONS broadc. IBRA prgr's:
R. Litoral, Cochabamba, Bolivia — R. WIVV, Vieques, Puerto Rico — R. Riquelme, Coquimbo, Chile — R. Paraguay, Asuncion — R. Kanto, Yokohama — *R. Hokkaido, Hokkaido. R. Corrientes, Corrientes, Argentina — R. St. HCJB (The Voice of Andes): Every Wed in Swedish — R. Independencia, Montevideo, Uraguay — R. WEBH, Chicago, U.S.A: FM-broadcast in Swedish every Sun (R. Sweden).

SWITZERLAND

L.T: GMT + 1 h — **Pr.L:** German, Swiss German dialects, French, Italian, Romanche.

SWISS BROADCASTING CORPORATION (+SBC)

(A non profit making comp) — **ADDR:** Schweizerische Radio-und Fernsehgesellschaft (SRG); Société suisse de radiodiffusion et television (SSR); Società Svizzera di Radiotelevisione (SSR), Giacomettistrasse 1,3000 Berne 16. **Cable:** Radif. **Te:** (031) 445555 — **L.P:** Pres. of the Board of Adm: Dr. A. Guinand. Dir. Gen: M. Bezençon. Dir. Adm. & Dep. Dir. Gen: D. Carl. TV Dir: Edouard Haas. Legal Dept: Dr. Régis de Kalbermatten. Prgr. Sce/Foreign Relations Radio: Dr. Gian Carlo Pellandini. TV Coordination: Frank R. Tappolet. Press and Documentation: Dr. M. T. Drack.
Schweizerischer Kurzwellendienst, Service suisse des ondes courtes, Swiss Shortwave Service, Giacomettistrasse 1,3000 Berne 16, **Te:** (031) 446644 — **L.P:** Dir: J. Curchod.
Telephonrundspruch, Telediffusion (Wired Broadc), Giacomettistrasse 1,3000 Berne 16. **Te:** (031) 441444 — **L.P:** Dir. Sw-Sce. and Telediff: J. Curchod. Head Telediff: B. Bruni.
According to the new State concession in force the Swiss Broadc. Corpo, (SBC) comprises three reg. radio and tv societies, namely:
Programme services in German:
"Radio-und Fernsehgesellschaft der Deutschen und der Raetoroman-ischen Schweiz" (6 reg. societies, 3 radio studios and 1 TV studio) — **L.P:** Reg. Radio Dir: Dr. F. Ernst, Marignanostrasse 50,4000 Bâle. **Te:** 061.346220. Reg. TV Dir: Dr. Guido Frei, Florastrasse 44,8008 Zürich. **Te:** 051.476800. **Radio Studios:** R. Berne Schwarztorstrasse 21,3000 Berne. Dir: M. Bollinger. R. Bâle, Novarastrasse 2,4000 Bâle. Dir: Dr. P. Meyer-Gutzwiller. R. Zürich, Brunnenhofstrasse 20,8057 Zürich. Dir: Dr. G. H. Padel.
Programme services in French:
"Societé de Radiodiffusion et de Télévision de la Suisse Romande" (2 reg. societies, 2 radio studios, 1 TV-studio) — **L.P:** Reg. Radio-Dir: J. P. Méroz, la Sallaz, 1010 Lausanne. **Te:** 021.21711. Reg. TV Dir: R. Schenker, 6, Place des Eaux-Vives, 1211 Genève. **Te:** 359060. **Radio studios:** R. Genève, 66 Boulevard Carl-Vogt, 1211 Genève. Dir: R. Aubert. R. Lausanne, Maison de la Radio, 1010 Lausanne. Dir: Dr. P. Valloton.
Programme services in Italian:
L.P: Reg. Radio-Dir: Dr. S. Molo. Reg. TV-Dir: F. Marazzi. **Radio Studio:** R. Lugano, 6903 Lugano-Besso. **Te:** 091/33021.
TV studio: Televisione Svizzera Italiana, 6903 Lugano-Besso. **Te:** 091/32021.

HOME SERVICE

GERMAN
First Prgr: Sun 06.00-22.30; Mon-Sat 05.10-22.30 (Sat 24.00)

	kHz	m	kW		ch	MHz	kW/W
Beromünster	529	567.1	250	Uetliberg	25	94.6	1.8
Beromünster	1562	192.0	160	Sool	26	94.8	0.5
Basel	1562	192.0	0.5	Weisshorn	26	94.8	0.1
FM:	**ch**	**MHz**	**kW/W**	Dél	27	95.1	0.75
Bondo	2	87.6	20W	Klewenalp	27	95.0	22.5W
Brusio	2	87.6	6W	Tarasp	27	95.1	0.5
Weisshorn	2	87.6	10W	Attinghausen	28	95.3	0.1
Hornfluh	3	87.9	0.75	Geissholz	28	95.4	0.75
Bantiger	4	88.2	0.6	Andermatt	29	95.7	8W
Lenk	4	88.2	10W	Davos	29	95.7	0.22
Poschavio	4	88.2	12W	Sils	29	95.7	36W
Gotsschnagrat	8	89.4	1.2	Pfänder	31	96.3	130W
Lohn	10	90.0	20W	Ca. d'Farett	32	96.6	0.2
Válzeina	11	90.3	0.75	Celerina	33	96.0	0.75
Ziegelbrücke	11	90.3	13W	Niederhorn	34	97.2	9
St. Chrischona	12	90.6	18	Ruschein	35	97.5	1.2
Rigi	13	90.9	30	Leuk	36	97.8	0.75
Buchserberg	15	91.6	0.25	Feldis	39	98.7	75W
Sta. Maria	20	93.0	30W	Ernen	40	99.0	2
Brig	23	93.9	0.5	Morissen	43	99.9	0.25
Engelberg	21	93.3	20W	Säntis	43	99.9	10

N, Wrp, Current N. items, Comm: 05.15, 06.00(Sun 06.45), 07.00, 09.00, 10.00, 11.30, 11.40, 14.00, 15.00, 17.00, 18.00, 18.15, 18.25, 22.20, 22.25 — **World Chronicle:** Fri 18.50 — **"Samtags Rundschau"** (domestic affairs): Sat 13.00 **Auto-Radio Schweiz** (for motorists): W 06.10-07.30.
Second Prgr: D 11.00-22.30.

FM:	ch	MHz	kW/W	FM:	ch	MHz	kW/W
Weisshorn	2	87.6	0.1	Weisshorn	26	94.8	10W
Celerina	3	87.9	0.75	Ernen	28	95.4	2
Davos	3	87.9	0.22	Lenk	28	95.4	10W
Geissholz	4	88.2	0.75	Säntis	28	95.4	10
Ziegelbrücke	4	88.2	13W	Hornfluh	30	96.0	0.75
Feldis	5	88.5	75W	Ruschein	31	96.4	1.2
Sta. Maria	6	88.8	30W	Rigi	32	96.6	30
Brig	8	89.4	0.5	Lohn	33	96.9	20W
Klewenalp	11	90.3	22.5W	Buchserberg	33	96.9	0.25
Tarasp	15	91.5	0.5	Uetliberg	35	97.5	1.8
Morissen	16	91.9	0.25	Gotschnagrat	36	97.8	1.2
Attinghausen	17	92.1	0.4	Pfänder	36	97.7	130W
Andermatt	20	93.0	8W	Engelberg	37	98.1	20W
Leuk	20	93.0	0.75	Dél	38	98.4	0.75
Bantiger	21	93.2	60	St. Chrischona	40	99.0	18
Niederhorn	22	93.6	9	Sool	40	99.0	0.75
Sils	23	93.9	36W	Valzeina	41	99.3	0.75

Local broadc. in German: Sat 17.00-18.00, Sun 16.45-17.45
Broadcasts in Romansch: Sun 11.40-12.00 (every 3rd Sun 08.15-08.45 sermon); Tues 18.45-19.00; Every 3rd Wed 19.00-19.15; Thurs 16.00-16.30 (every 1st Thurs of the month 19.00-20.30); Sat 18.45-19.00.
FRENCH: First Prgr: Sun 06.10-22.30, Mon-Fri 05.10-22.30, Sat 05.10-24.00.
Sottens 764kHz 392.6m 250kW — Savièse 1367kHz 219.5m 0.5kW.
FM: Rel Sottens:

	ch	MHz	kW		ch	MHz	kW
Moudon	3	87.9	10W	Bantiger	27	95.1	12
Leuk	4	88.2	0.75	Val de Travers	28	95.5	22W
St. Sulpice	17	92.0	20W	La Chaux de Fonds	31	96.3	1.5
Vallée de Joux	19	92.7	20W	Hornfluh	38	98.4	0.75
Chamossaire	21	93.3	320W	Moutier	38	98.4	7W
Les Ordons	24	94.2	1.5	Ravoire	41	99.3	1.2
La Dole	26	94.8	45				
Moron	26	94.8	135W				

N, Wrp, Comm. (Current N-items): 05.15, 06.15, 07.00, 08.00, 09.00, 10.00, 11.00, 11.45, 13.00, 14.00, 15.00, 16.00, 17.00, 17.05, 18.00, 19.00, 21.30, 22.25 — **"La situation internationale":** Fri 18.30 — **"Route Libre":** Sat 07.05 — **Symphony:** Wed 19.30.
Second Prgr: Sat/Sun 07.00-22.00; Mon-Fri 11.00-22.00.

FM:	ch	MHz	kW	FM:	ch	MHz	kW
La Chaux de Fonds	2	87.6	1.5	Moutier	18	92.3	7W
Vallée de Joux	3	87.9	20W	Ravoire	29	95.7	1.2
Leuk	11	90.3	0.75	Chamossaire	31	96.3	320W
Moudon	12	90.6	10W	St. Sulpice	34	97.2	20W
La Dole	14	91.2	45	Val de Travers	40	98.5	22W
Moron	14	91.2	135W	Bantiger	41	99.3	12
Hornfluh	15	91.5	0.75	Les Ordons	42	99.6	1.5

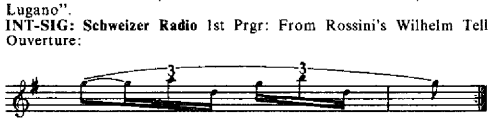
ITALIAN: First Prgr: Sun 07.00-22.30, Mon-Fri 06.00-22.30, Sat 06.00-24.00.
Monte Ceneri 557kHz 538.6m 100kW

FM:	ch	MHz	kW/W	FM:	ch	MHz	kW
Airolo	4	88.0	0.01	M. Morello	31	96.3	0.75
Peccia	4	88.2	0.1	M. Ceneri	33	96.9	0.75
Bondo	11	90.3	20W	Cardada	34	97.2	0.6
Brusio	15	91.5	6W	Pizzo Matro	36	97.8	0.75
Ca d'Farett	17	92.1	200W	M. S. Salvatore	39	98.7	12
Poschavio	23	93.9	12W	Grono	42	99.6	1

N, Wrp, Comm, Current N. items: 06.15(Sun 07.15), 07.00, 09.00, 11.00, 11.30, 11.35, 13.00, 15.00, 17.00, 18.15, 18.20, 19.00(Fri), 21.00, 22.00, 22.05.
Second Prgr: W 11.00(Sat 13.00)-21.30, Sun 13.00-16.15, 19.00-21.30.

FM:	ch	MHz	kW/W	FM:	ch	MHz	kW
M. Morello	6	88.8	0.75	M. S. Salvatore	20	93.0	12
M. Ceneri	8	89.4	0.75	Airolo	22	93.6	0.01
Pizzo Matro	10	90.0	0.37	Peccia	23	93.9	0.1
Cardada	14	91.3	0.6	Grono	26	94.8	1

JOINT PRGR's: Swiss Radio's First Programmes: W 10.05-11.00 and Sat 22.30-24.00. Second Prgr: W 11.00-17.00, 18.00-19.00. **ANN:** German: "Radio der deutschen und der rätoromanischen Schweiz". French: "Radiodiffusion suisse, programme romand". Italian: "Radio della Svizzera Italiana, Stazione nazionale di Monte Ceneri, Studio di Lugano".
INT-SIG: Schweizer Radio 1st Prgr: From Rossini's Wilhelm Tell Ouverture:



2nd Prgr: Combination of the Folksongs "Ich bin ein Schweizerknabe" and "Lueget vo Bärge-n und Tal":

Switzerland Calling

European and
Overseas Services
of the
Swiss Broadcasting
Corporation

On the air to the world in English, German, French, Italian, Spanish, Portuguese, Arabic and Esperanto: World and home news, political commentaries, Actuality reports and entertainment features – Serious, light and Swiss country music concerts – Special programmes for DX-ers and jazz fans. Write for your free copy of "Switzerland Calling", SBC's illustrated programme schedule, published in spring and autumn to: – SBC European and Overseas Services, CH 3000 Bern 16, Switzerland.

+SRG

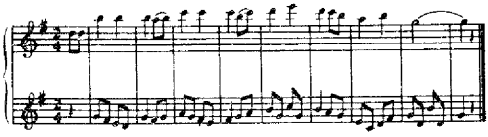
+SSR

+SBC

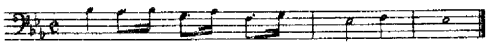
Switzerland Calling

Switzerland

Radio Suisse Romande: Melody by Achille Christen (Celesta):



Radio Svizzera Italiana: "Campane della Chiesa de Pazzalino"



V: Any messages from our listeners and viewers are most welcome. Both QSL-card and letter are used — **PUB:** "Radio + Fernsehen" "Radio TV — Je vois tout". "Radiotivu" — **FI:** By licence fee — **ALF:** Frcs 40, —

FOREIGN SERVICES

Schwarzenburg (G.C: 07.24E/46.49N): 4 × 100kW, 2 × 250kW tr's (directional for overseas tr's).
Beromünster (G.C: 08.10E/47.12N): 2 × 250kW tr's (omnidirectional, European Prgr).

kHz	m	kHz	m	kHz	m	kHz	m
3985	75.28	9595	31.27	11880	25.25		
6015	49.88	9665	31.04	15125	19.83	17830	16.83
6120	49.02	9720	30.86	15135	19.82	17845	16.81
6165	48.66	11715	25.61	15180	19.76	17855	16.80
9535	31.46	11775	25.48	15305	19.60	21520	13.94
9590	31.28	11865	25.28	15430	19.44	21540	13.93

Schedules 3/11 68 — 3/5 68

EUROPEAN SERVICE:
Omnidirectional (covering Europe and No. Africa): 05.45 (Sun 06.00) — 15.00 (Sun 13.00) on 6165/9535kHz, 15.00 (Sun 13.00) — 20.00 on 3985/6165/9535kHz, 20.00-23.00 on 3985/6165kHz. Quadrant antennas are used for the European prgr.
English: W 07.00-08.00 (for details see "Prgr's in English").
German/French/Italian: W 05.45-07.00, 08.00-23.00, Sun 06.00-23.00 — **Esperanto:** 12.05 (Mon/Wed), 21.50 (Thurs/Sat).
NEWS: English: 07.02(W). **German:** 06.00(W), 06.45(Sun), 09.00(W), 10.00(W), 11.30, 14.00(W), 18.15, 22.30. **French:** 06.15(W), 07.00(Sun), 11.45, 15.00(W), 16.00(W), 19.15, 22.45. **Italian:** 06.30(W) 07.15(Sun), 12.15, 17.00(W), 19.00, 22.00.
Prgr's for Swiss Abroad: 08.00-08.30(W), 12.30-13.00, 17.45-18.15 — Swiss-German: Tues, Fri, Sun; French: Mon, Thurs; Italian: Wed, Sat.

OVERSEAS SERVICE
I = Africa; II = UK/Ireland; III = Spain/Portugal; IV = Australia/New Zealand; V = Japan/China; VI = SE Africa/India/Pakistan; VII = Near East; VIII = So. America; IX = Ce. America; X = No. America East; XI = No. America West; SA = For Swiss Abroad

Times	kHz/Beam	Areas	Languages
07.00-08.30	9590(260°)/11775(245°)	IV	**English**/SA
08.45-09.45	11775(50°)/15135(50°)	V	**English**
10.00-13.00	15305*(200°)/17855(170°) 21520(140°)	I	**English**/German-French-Italian/SA
11.30-13.00	9665(305°)/11865(305°)	II	**English**/SA
13.15-14.45	15305(80°)/17845(80°) 21520(80°)	VI	**English**/SA
13.30-14.45	9665(245°)/11865(245°)	III	SA/Spanish
15.00-16.15	21520(170°)	I	Portuguese/SA
15.00-17.00	15305(110°)/17830(125°)	VII	**English**/SA/Arabic
15.00-17.00	21540(245°)	VIII	Portuguese/SA/Spanish
17.15-19.15	11775(140°)/15305(170°)	I	Arabic/French/**English**
19.30-20.30	6015(305°)/9665(305°)	II	**English**
20.45-22.45	6015(245°)/9665(245°)	III	Portuguese/Spanish/SA
23.15-01.15	9535(245°)/11715(230°) 15125(230°)	VIII	Portuguese/SA/Spanish
01.30-03.00	6120(305°)/9535(290°) 11715(305°)	X	**English**/SA
03.15-04.30	6120(290°)/9535(290°) 9720(260°)	IX	Spanish/SA
04.45-06.15	6120(320°)/9720(320°)	XI	**English**/SA

Only curtain antennas are used for overseas tr's — *) only 10.00- 11.00

PRGR'S IN ENGLISH
Each tr 60 min — All tr's begin with T.S. and N — Features:

00	Announcement	
01	Time-Signal	
02	News	
12	Mon-Fri:	Commentary
	Sat:	"Swiss Gazette"
	Sun:	"Swiss Sunday Special" (Bells of Switzerland, In His Name)
18	Mon:	"Echoes from Switzerland" (Geneva Report)
	Tues:	The World of Concert Music (Incl. Swiss Cultural Spotlight)
	Wed:	Melody Train (I)/Echoes from Switzerland/Melody Train II
	Thurs:	The World of Folklore (incl Swiss Economic Spotlight).
	Fri:	"Echoes from Switzerland" (Zürich Report)

PRGR'S IN ENGLISH

26	Mon-Fri:	Musical Interlude
	Sun:	Melody Train/Mailbag Show or Let's Discover Switzerland
29	Mon:	Swiss Shortwave Merry-go-Round
	Fri:	Jazz Panorama
45	Sat:	The Week in Switzerland
60	End of tr.	

PRGR'S IN SPANISH
Each tr 45 min — All tr's begin with T.S. and N — Features:

00	Announcement	
01	Señal horaria (T.S.)	
02	Boletin de noticias (N)	
10	Tues-Fri:	Commentario politico (Political Comm.)
	Sun, Mon:	El deporte (Sports Roundup)
	Sat, Sun:	La Semana en Suiza (Weekly Review)
15	D:	Intermedio Musical (Musical Interlude)
18	Mon:	Miscelánea o Suizos de ayer (Magazine or The Famous Swiss)
	Tues, Thurs, Sat:	Pinceladas de actualidad (Topical Reports)
	Wed:	Apuntes económicos (Economic Talk)
	Fri:	Revista femenina o Juventud Suiza (Feminine Topics or Swiss Youth)
	Sun:	Ecos da Suiza (Echoes from Switzerland)
24	Sun:	Compositores suizos (Swiss Composers)
26	Wed:	Mensajes musicales (Request Prgr.)
28	Tues:	Carrusel musical (Light Music)
	Thurs:	Concierto des jueves (Classical Music)
	Fri:	Mensajes musicales (Request Prgr.)
30	Mon, Fri:	Música popular suiza (Swiss Folk Music)
45	End of tr.	

PRGR'S IN PORTUGUESE
Each tr 45 min — All tr's begin with T.S. and N — Features:

00	Announcement	
01	Sinal horário (T.S.)	
02	Noticiário (N)	
11	Mon:	Apontamento Desportivo (Sports Roundup)
	Tues-Fri:	Atualidade Internacional (World Topics)
	Sat, Sun:	Intermédio musical (Musical Interlude)
15	Mon:	Atualidade Internacional (World Topics)
	Sat:	Ecos da Suiça (Echoes from Switzerland)
	Sun:	Aqui Suiça (Switzerland Calling)
16	Tues, Fri:	Intermédio musical (Musical Interlude)
	Mon:	Intermédio musical (Musical Interlude)
	Tues:	Economia em Foco (Economic Notes)
	Wed:	Compositores Suicos (Swiss Composers)
	Thurs:	Arte e Cultura (Art and Culture)
	Fri:	Aquarela Musical (Light Music)
21	Sat:	Revista da Semana (Weekly Swiss Roundup)
25	Mon:	Caixa Postal 3000 Berna 16 (Mbg)
27	Tues:	Magazine (Magaziee)
33	Thurs:	Música Popular Suíca (Swiss Folk Music)
45	End of tr.	

PRGR'S IN ARABIC
Each tr 30 min — All tr's begin with T.S. and N — Features:

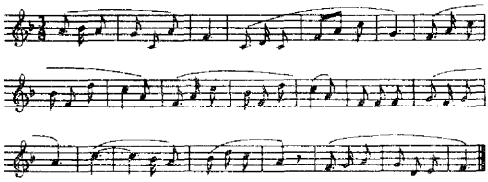
00	Announcement	
01	Time-Signal	
02	News	
10	Mon-Fri:	Commentary
	Sat:	Around and About in Switzerland
	Sun:	Mbg Show
15	Mon:	Swiss Legends
	Tues:	Swiss Youth
	Wed:	Swiss Industry
	Thurs:	Switzerland Today
	Fri:	Request Prgr.
30	End of tr.	

PRGR'S IN FRENCH (for Africa)
Each tr 30 min — All tr's begin with T.S. and N — Features:

00	Announcement	
01	Signal horaire (T.S.)	
02	Informations (N)	
10	Mon-Fri:	Page de la vie du Monde (Political Comm.)
	Sat:	Le monde cette semaine (Weekly Review)
	Sun:	Culture Magazine (Cultural Magazine)
15	Sun:	Bonsoir l'Afrique (Topical Reports)
	Mon:	Suisse — Afrique (Swiss-African Relations)
	Tues:	Médecine et Santé (Health Magazine)
	Wed:	Enseignement (Education)
	Thurs:	Science et Technique (Science and Technique)
	Fri:	Enquêtes et documents (Investigations and documents)
	Sat:	Actualité (Actuality Report)
30	End of tr.	

SUNSPOT NUMBERS:
Reception and tr. times are as follows: 7th/8th & 9th/10th December; 4th/5th & 6th/7th January; 8th/9th & 10th/11th February; 8th/9th & 10th/11th March; 5th/6th & 7th/8th April; 3rd/4th & 5th/6th May. **In English:** During the last 5 min of "Swiss Shortwave Merry-Go-Round": Mon 07.50(IV), 09.35(V), 10.50(I), 12.20(II), 14.05(VI), 15.50(VII), 19.05(I), 20.20(II); Tues 02.20(X), 05.35(XI) **In Spanish:** Right after the Prgr. "Mensajes Musicales": Sat 14.40(III), 16.55 (VIII), 22.10(III); Sun 01.10(VIII), 03.55(IX)

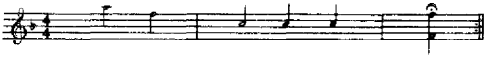
INT-SIG: "Lueget vo Bergen und Tal (trad. German-Swiss Folk Song), played on a music-box



V: Correct reports to SBC European & Overseas Services, CH – 3000 Bern 16, Switzerland, verified by QSL-Card or letter. IRC if airmail reply required.
PUB: Prgr. schedule "Switzerland Calling" (edited twice a year, in spring and autumn), also in German, French, Spanish, Portuguese and Arabic; report cards and report sheets (airletters) free upon request. No DX-Club, no pennants, no pen-pals.

UNITED NATIONS BROADCASTING FROM GENEVA

ADDR: R. des Nations Unies, Palais des Nations, Geneva. **Cable:** Omnipress. **Telex:** 22.212. **Te:** 345011, Ext. 2328/2566 — **L.P:** Dir. Inf: J. G. Lindström. Chief, Radio & Visual Services: G. Grégoire.
FOREIGN SCE (Prangins): 7443kHz 40.31m 25kW: Russian Mon-Fri during the UN Gen. Ass. period, otherwise Fri only 18.30-18.40 — UN Prgr. in Arabic (to No. Africa/Mid. East) Mon-Fri during UN Gen. Ass. period, otherwise Mon only 19.20-19.30 on 9545/11800/15400kHz (via RAI) and 20.00-20.15 on 11920/15160kHz (via ORTF).
ANN: E: "This is United Nations R. in Geneva", F: "Ici les Nations Unies à Genève" — **INT-SIG:**



V. by QSL-card or letter.

BROADCAST FROM THE INTERNATIONAL COMMITTEE OF THE RED CROSS, GENEVA

ADDR: Int. Comm. of the Red Cross, 7 Ave. de la Paix, 1211 Geneva 1.
L.P: Dir: P. Basset.
In Peace time: ICRC organizes occasional test transmissions (6 times a year) on the frequency of 7210kHz 41.61m by courtesy of Swiss Short Wave Service at the following hrs: 06.00-07.00, 11.30-12.30, 17.00-18.00, 23.00-24.00 in **French, English, Spanish.** Prgr's consist of ICRC-actualities and tracing service. **In times of crisis:** ICRC broadcast programmes containing information regarding prisoners of war and civilians on the same frequency as well as on others lent by the Swiss authorities, up to 12 hours per day — **ANN:** E: "This is R. Inter-Red-Cross calling". F: "Ici R. Inter-Croix-Rouge". Sp: "Aqui R. Inter-Cruz-Roja" — **V.** by QSL-card. Recordings accepted.

USSR

L.T: See time table — **Pr.L:** Russian, Ukrainian, Byelorussian, Uzbek, Tatar, Kazakh, Azerbaidjanian, Armenian, Georgian, Lithuanian, Moldavian, German, Estovian, Latvian, Chuvash, Tadjik.

STATE COMMITTEE FOR BROADCASTING AND TELEVISION (Gov.)

ADDR: Pjatnitskaja ulitza 25, Moscow. **Cable:** Moskva Radio. **Te:** 33-63-56 — **L.P:** Pres. of Broadc. Committee: N. N. Mesyatsev. 1st Vice-Pres: E. N. Mamerlov. Vice Pres. (TV): G. A. Ivanov. Vice-Pres. (Radio): A. A. Rapokhin. Vice Pres. (Constr): L. S. Maksakov. Dir. Tec. (Radio): V. F. Zjelesova. Chief Foreign Relations: M. Monusov.

STATIONS

LONG & MEDIUM WAVES

Stations in fat types also use shortwave.
1) = Rel. R. Moscow prgr. I — 2) = Rel. R. Moscow prgr. II — 3) = Rel. R. Moscow prgr. III — 4) = Rel. R. Moscow prgr. IV.

Station	kHz	m	kW	H. of tr.
Ufa (Bashkir ASSR)	151	1986.8	50	02.00-21.00[2]
Petropavlovsk (RSFSR)	155	1935.5	10	16.30-08.00 19.00-16.00
Blagovechensk	155	1935.5	50	09.30-15.30
Tashkent (Uzbekistan)	164	1829.3	50	00.00-19.30
Moscow II (RSFSR)	173	1734.1	500	02.00-01.00[2]
Chita (RSFSR)	173	1734.1	20	21.00-16.00
Alma-Ata (Kazakhstan)	182	1648.4	50	00.00-20.00
Petropavlovsk (RSFSR)	182	1648.4		18.30-13.00
Tbilisi (Georgia)	191	1570.7	50	01.55-10.00, 13.00-21.03
Irkutsk (RSFSR)	200	1500	100	22.00-16.00[4]
Leningrad (RSFSR)	200	1500	100	04.00-14.00[3]
Ashkhabad (Turkmenia)	200	1500		
Kazan (Tatar ASSR)	200	1500		
Blagovechensk (RSFSR)	209	1435.4	50	21.00-09.00[4]
Kiev I (Ukraine)	209	1435.4	150	02.00-10.00, 13.00-22.00
Baku (Azerbaijan)	218	1376.1	50	02.00-10.00, 13.00-22.00
Krasnoyarsk (RSFSR)	218	1376.1	50	22.57-18.00
Tselinograd	227	1321.6	50	00.00-20.00
Leningrad I (RSFSR)	236	1271.2	100	02.00-11.00, 12.00-22.00
Tobolsk (RSFSR)	236	1271.2	50	22.00-11.00[2]
Magadan (RSFSR)	236	1271.2	20	19.00-14.00[4]
Vladivostok I (RSFSR)	245	1224.5	100	19.56-10.00 (Rel. "Majak": 16.30-19.00)
Dushanbé (Tadjikistan)	254	1181.1	50	00.00-21.00
Kazan (Tatar ASSR)	254	1181.1	100	02.00-14.00
Erevan (Armenia)	254	1181.1		
Yakutsk	263	1140.7	10	21.00-16.00[4]
Moscow I (RSFSR)	263	1140.7	150	02.00-22.00
Novosibirsk (RSFSR)	272	1102.9	100	23.00-18.00
Minsk II (Byelorussia)	281	1067.6	100	02.00-23.00
Ulan-Ude	281	1067.6	10	22.00-17.00
Orenburg (RSFSR)	300	1000	20	02.00-20.00[2]
Barnaul (RSFSR)	310	967.7	20	23.00-19.00[4]
Moscow II	320	937.5	20	05.00-20.00[1]
Khabarovsk (RSFSR)	335	895.5	150	19.30-15.00
Saratov (RSFSR)	340	882.4	100	02.00-07.00, 16.00-22.00
Dushanbé (Tadjikistan)	350	857.1	20	00.00-18.00[1-2]
Yuzno-Sakhal. (RSFSR)	360	833.1	100	19.25-21.45, 01.00-11.30
Yerevan (Armenia)	362	828.7	50	02.00-11.30, 13.00-22.00
Ashkhabad (Turkmenia)	375	800.0	10	02.00-11.00, 13.00-21.00
Vladivostok (RSFSR)	380	789.5	50	19.00-18.00[4]
Kharkow (Ukraine)	385	779.2	50	15.00-22.00[2]
Moscow II	388	773.2	20	02.00-14.30[2]
Omsk (RSFSR)	394	760.4	50	23.57-19.30[4]
Tashkent II (Uzbekistan)	400	750.0	50	00.00-20.03
Minsk II (Byelorussia)	400	750.0	50	02.00-14.00[3], 15.00-23.30
Tula	529	567.1	20	
Cheboksary	530	566.0		
Odessa (Ukraine)	548	547.4	150	02.00-01.00[2]
Vladivostok II (RSFSR)	548	547.4	100	*
Volgograd (RSFSR)	557	538.6	10	02.00-21.00
Riga I (Latvia)	575	521.7	100	03.00-23.00
Ijevsk (Udmurt ASSR)	584	513.7		
Krasnoyarsk	593	505.9	10	23.00-22.00 (rel. Majak)
Ordzonikidze (Osset. ASSR)	593	505.9	10	02.00-22.00[2]
Frunze (Kirghizia)	611	491.0	25	00.00-20.00
Petrozavodsk (Karelian ASSR)	611	491.0	100	02.00-21.03
Krasnodar (RSFSR)	611	491.0	20	01.00-22.00[2]
Vladivostok (RSFSR)	629	476.9	100	15.00-07.30
Simferopol (Ukraine)	647	463.7	100	02.00-12.00, 13.00-22.00
Murmansk (RSFSR)	656	457.3	150	02.00-22.00
Grozny (Checheno-Ingush. ASSR)	656	457.3		02.00-21.00[2]
Vilnius (Lithuania)	665	451.1	100	02.00-23.30
Tsjernovtsy (Ukraine)	674	445.1	100	03.00-12.00, 13.45-22.00
Ufa (Bashkir ASSR)	692	433.5	100	01.00-12.00, 14.30-20.00[3]
Donetsk (Ukraine)	710	422.5	150	02.00-12.00, 13.00-22.00
Vladivostok (RSFSR)	710	422.5	100	21.30-07.00[4]
Tallinn (Estonia)	710	422.5	150	03.00-23.00
Chelyabinsk (RSFSR)	737	407.1	50	01.00-12.00, 16.00-22.00[2]
Khanty Mansyisk	737	407.1	50	
Tselinograd	746	402.1	20	00.00-20.00
Odessa (Ukraine)	764	392.1	10	01.55-12.00
Voronej	773	388.1	20	
Kiev II (Ukraine)	782	383.6	100	02.00-12.00, 13.00-15.30
Karaganda (Kazakhstan)	782	383.6	20	00.00-20.00
Astrakan	791	379.3	50	
Leningrad II (RSFSR)	800	375.0	100	03.00-22.00
Dushanbé (Tadjikistan)	800	375.0	100	08.00-18.30
Kuibyshev (RSFSR)	809	370.8	10	01.00-13.00, 15.30-22.00[2]
Gorkij (RSFSR)	827	362.8	20	03.00-22.00[2]
Kharkov (Ukraine)	836	358.9	20	16.00-22.00
Vinnitza (Ukraine)	836	358.9		
Kazan (Tatar ASSR)	845	355.0	10	03.00-11.00, 13.00-22.00
Elista (Kalmyk ASSR)	845	355.0		
Yerevan (Armenia)	863	347.6	100	02.00-11.00, 11.50-22.05
Moscow (RSFSR)	872	344.0	150	04.00-03.00
Stavropol (RSFSR)	881	340.5	20	02.00-22.00[2]
Uzhgorod (Ukraine)	890	337.1	100	02.00-12.00, 13.00-22.00
Ioshkhar-Ola (Mari ASSR)	899	333.7	50	
Makhachkala	917	327.2	50	02.00-22.00
Ivanovo	926	324.0	10	
Lvov (Ukraine)	935	320.9	300	02.00-12.00, 13.00-01.00
Rostov/Don (RSFSR)	944	317.8	20	06.00-22.00[2]
Smolensk (RSFSR)	971	309.0	150	07.00-16.18[1]
Kalinin	971	309.0	20	

USSR

Station	kHz	m	kW	H. of tr.
Yuzhno-Sakhal (RSFSR)	973	308.3	20	19.25-21.45, 01.00-13.05
Garm	980	306.1	20	
Krasnoyarsk	980	306.1	100	
Kishinjov (Moldavia)	998	300.6	100	03.00-11.00, 12.00-23.00
Baku (Azerbajan SSR)	1016	295.3	100	14.00-20.00, 01.55-10.00
Tomsk (RSFSR)	1025	292.7	200	23.00-12.00, 17.00-22.00[2]
Tallinn I (Estonia)	1034	290.1	100	03.00-22.00
Tbilisi (Georgia)	1043	287.6	100	02.00-21.00
Saransk (Mordvin ASSR)	1061	282.8	50	03.00-21.03[2]
Dnjepropetrovsk	1070	280.4	20	03.00-12.00, 13.00-22.00
Kysyl (Tuvin ASSR)	1079	278.0	50	12.00-23.00
Perm (RSFSR)	1088	275.5	20	00.58-20.00
Vilnius II (Lithuania)	1106	271.2	100	04.00-23.30
Kaliningrad (RSFSR)	1115	269.1	20	02.00-22.00[1]
Khanty Mansyisk	1115	269.1	50	
Leningrad III (Vyborg)	1124	266.9	20	03.00-22.00
Riga (Latvia)	1142	262.7	50	03.00-02.00[2]
Vladivostok (RSFSR)	1151	260.9	100	20.00-00.00, 08.30-14.30[2]
Dushanbé (Tadjikistan)	1160	258.6	50	
Odessa (Ukraine)	1169	256.6	50	02.00-15.30[1]
Kursk (RSFSR)	1214	247.1	2.5	
Tallinn II (Estonia)	1214	247.1	200	02.55-23.00
Kiev (Ukraine)	1241	241.7	150	16.00-24.00
Khabarovsk (RSFSR)	1250	240.0	100	22.30-23.00, 00.00-08.00[2]
Moscow II	1250	240.0	50	16.00-22.00[2]
Moscow III	1277	234.9	20	04.00-03.00[2-3]
Baku (Azerbajan)	1295	231.7	150	
Simferopol (Ukraine)	1313	228.5	100	19.00-21.30
Kharkov (Ukraine)	1322	226.9	100	01.00-22.00[2]
Chita (RSFSR)	1315	228.0	50	18.00-20.00
Kohtla Järve (Estonia)	1331	225.4	20	02.55 (Sun 03.55)-
Pärnu (Estonia)	1331	225.4	20	21.03
Kuldiga (Latvia)	1349	222.4	20	03.00-21.03,
Madona (Latvia)	1349	222.4	20	21.05-22.00
Valmiera (Latvia)	1349	222.4	20	
Kuybichev (RSFSR)	1349	222.4		
Tbilisi (Georgia)	1349	222.4		
Moscow II	1358	220.9	50	20.00-04.00[2]
Petropavlovsk (RSFSR)	1367	219.5	30	
Vladivostok (RSFSR)	1376	218.2	10	20.00-08.30, 14.00-16.00[2]
Vinnitza (Ukraine)	1376	218.2	50	16.00-22.00
Kaliningrad	1385	216.6		05.00-15.00[3]
Uralsk (RSFSR)	1385	216.6	50	
Kaunas (Lithuania)	1385	216.6	150	04.00-15.00[3], 15.00-23.00**
Tartu (Estonia)	1403	213.8	20	02.55-21.03
Tiraspol (Ukraine)	1403	213.8	10	16.00-22.00
Orissare (Estonia)	1403	213.8	10	02.55-21.03
Riga (Latvia)	1421	211.1	10	03.00-22.00
Syktyvbar (Komi ASSR)	1439	208.5	150	06.30-16.18, 16.30-22.00[1], 02.00-06.30[2]
Simferopol (Ukraine)	1466	204.6	20	17.00-21.03
Riga III (Latvia)	1484	202.2	5	03.00-22.00
Leningrad (RSFSR)	1493	200.9	50	16.30-00.30
Gomel (Ukraine)	1493	200.9	20	02.00-11.00
Dushanbé (Tadjikistan)	1502	199.7	10	00.00-19.00
Tallinn (Estonia)	1511	198.5		
Aktjubinsk (Kazakhstan)	1511	198.5	50	00.00-20.00
Moscow	1525	196.7		
Vinnitsa (Ukraine)	1546	194	50	15.30-21.30
Karaganda (Kazakhstan)	1546	194.0	10	00.00-20.00
Moscow	1550	193.5		09.30-15.00[4]
Vilnius (Lithuania)	1554	193.0	20	04.00-23.30
Tomsk (RSFSR)	1554	193.1	20	
Leningrad (RSFSR)	1562	192.1		04.00-20.00[3]
Leningrad	1570	191.1	10	03.00-11.00, 20.00-24.00
Khabarovsk (RSFSR)	1586	189.1	50	19.00-17.00

*) 20.30-21.00, 02.00-00.03 (Sun 04.00-05.00); relay Moscow 2nd Prgr: 19.00-20.30, 23.30-02.00, 03.00-07.30; **) Rel Foreign Sce.

Shortwaves: For R. Moscow and Regional Shortwave st's: Please refer to the pages: *Shortwave Stations of the World.*

HOME SERVICES

RADIO MOSCOW

1st Prgr: D 02.00-22.00 to European part of Russian Federation. **N:** 02.03, 03.03, 05.00, 07.00(W), 08.00(Sun), 09.00(W), 12.00, 16.00, 19.00, 20.50 — **Press review:** 04.00(Pravda), 06.00(Central papers) — **Prgr. preview:** 04.35(W), 05.15, 09.10(W), 10.45 (for the coming day), 16.18. **Comm:** 15.30(Mon-Fri), 16.20(W), 07.20(Sat) — **L.L:** 13.50 *French(Wed), German(Tues); 13.15 English(Fri)* — **Youth Prgr:** "Yunost" 14.00(W), 21.03(Mon-Fri) — **R. University of Marxism-Leninism:** Mon-Fri 15.40-16.00; Sat 08.00-08.20, 14.00-14.15, 19.35-19.50 — **Gymnastics:** 02.15(W), 02.15(W), 04.10(W), 04.40(Sun), 08.10(W)

1st Prgr. A: 21.00-16.00, 19.00-21.00-21.00 to Far East/Ea. Siberia. **N:** 21.00, 00.00, 01.00, 03.00, 05.00, 07.00(W), 09.00(Mon-Fri), 12.00, 18.00, 19.00, 20.50 — **Press review:** (Pravda & Isvestiya) 02.00, 04.00, 06.00(Central) — **Comm:** 02.15(Mon-Fri), 03.15(Sat/Sun), 04.30(W), 18.30 — **Prgr. preview:** 21.03, 04.10(Mon-Fri), 04.30(Mon-Fri) — **Youth Prgr:** "Yunost": 08.00, 12.15(Mon, Wed, Sat), 14.00(Tues/Thurs/Sat) — **R. University of Marxism-Leninism:** 08.00-08.20(Sat), 09.10-09.30(Mon-Fri), 11.45-12.00(Sat).

1st Prgr. B: 23.00-24.00, *02.00-19.00* to We. Siberia; *00.00-01.59* to Ural/We. Siberia/Kazakhstan/Ce. Asia

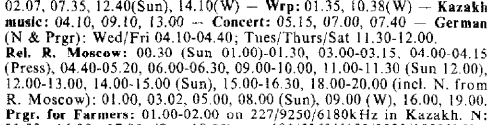
N: 23.00, 00.00, 01.00, 03.00(Sat/Sun), 03.03(Mon-Fri), 05.00, 07.00 (W), 08.00(Sun), 09.00(W), 12.00, 16.00 — **Press review:** 02.00(Pravda & Isvestiya), 04.00(Pravda), 06.00(Central) — **Comm:** 07.20(Sat), 08.00(W), 16.20 — **Prgr. preview:** 01.50, 06.15, 16.18 — **Youth Prgr.** "Yunost": 11.00(D exc. Sat), 17.00(Sat) — **Gymnastics:** 00.15, 01.15.

2nd Prgr. "Mayak": 24 h.

N: Each half h from 21.00-19.30(exc. 12.30) — **Press review:** 03.00 (Pravda) — **Literature prgr:** 01.10, 08.40, 14.40 — **Youth prgr.** "Yunost": 18.05-18.30 — **Army prgr:** 20.00-21.00.

ANN: R: "Govorit (name of station: Mosva, Alma-Ata, Baku, Leningrad, Tashkent etc)". G: (R. Moscow): "Hier ist Moskau mit seiner Sendung für die Sowjetdeutsche Bevölkerung".

INT-SIG: For Home & Foreign Service:



PUB: "Radioprogrammy" (weekly) and "Televidenye" (weekly).

REGIONAL STATIONS

R. ALMA-ATA — L.P: Pres: K. N. Shabalayev.

1st Prgr. in Kazakh, Russian, German: 00.00-13.00 on 182/227/746/782/4544/5260/6180/9250/10530kHz (01.00-02.00 not on 9250/6180 kHz). 13.00-20.00 on 182/5260/6180/9380/10530kHz. **N:** Kazakh: 00.03, 02.00, 07.25, 10.30(W), 14.00(W), 12.30(Sun). Russian: 00.06, 02.07, 07.35, 12.40(Sun), 14.10(W) — **Wrp:** 01.35, 10.38(W) — **Kazakh music:** *04.10, 09.10, 13.00* — **Concert:** *05.15, 07.00, 07.40* — **German** (N & Prgr): Wed/Fri 04.10-04.40; Tues/Thurs/Sat 11.30-12.00.

Rel. R. Moscow: 00.30 (Sun 01.00)-01.30, 03.00-03.15, 04.00-04.15 (Press), 04.40-05.20, 06.00-06.30, 09.00-10.00, 11.00-11.30 (Sun 12.00), 12.00-13.00, 14.00-15.00 (Sun), 15.00-16.30, 18.00-20.00 (incl. N. from R. Moscow): 01.00, 03.02, 05.00, 08.00 (Sun), 09.00 (W), 16.00, 19.00.

Prgr. for Farmers: 01.00-02.00 on 227/9250/6180kHz in Kazakh. **N:** 01.00, 16.00, 17.00 (Sat 18.00) on 182/5260/6180/9380/10530kHz: Kazakh: 16.00-16.30; Russian: 16.30-17.00.

2nd Prgr. (Cult) in Kazakh: 13.00-18.00 on 746/4544/9250kHz: **Ann:** Kazakh: "Almatydan sölep turmys." Russian: "Govorit Alma-Ata". German: "Hier ist Alma-Ata mit seiner Sendung für die deutsche Bevölkerung in Kasachstan" — **INT-SIG:** Kazakh folk song — **V** by QSL-card. Reply in Russian. Rp.

R. ARKHANGELSK in Russian, Saami: 1st Prgr: 02.00-11.00 on 5930kHz; 13.00-21.03 on 5015kHz. **Own Prgr's:** D 05.14-05.55, 14.03-15.00, 16.00-16.55. **N:** 05.40, 14.45, 16.00.

R. ASHKHABAD — L.P: Pres: Y. Khodshayev.

In Turkmenian, Russian: 00.55-09.00, 13.00-22.00 on 375/4825kHz — **Turkmenian:** 01.00-03.00, 03.15-04.00, 04.15-05.40, 07.00-08.00, 13.00-15.00, 16.00-18.00 — **Ann:** Turkmenian: "Gepleyär Ashkhabad" — **V.** by letter. Rep. in Russian. Rp.

R. BAKU: In Azerbaidjan, Russian, Armenian:

1st Prgr: D 01.55-11.00, 12.30-22.00 on 218/4958kHz, 01.55-04.00, 05.00-11.00 also on 9490kHz.

N: Azerbaidjan: 02.00, 09.00, 12.30, 15.00, 18.00. **N. in Russian:** 06.45, 16.10, 18.15.

Prgr. in Armenian: 07.15-08.00. **N:** (Rel. R. Yerevan) 15.40 — **2nd Prgr:** On 4958kHz 14.00-20.00 — **Ann:** Azerbaidjan (Home & Foreign Sce): "Danishir Baku" — **V.** by QSL-card.

R. BARNAUL (Altai):

1st Prgr: 00.00-17.00 on 310kHz/FM — **Own Prgr's:** 01.10-02.00, 12.00-14.00. *German (for Kulunda-Zone): Wed 13.20-13.43.*

R. CHELYABINSK: In Russian, Bashkirian, German: 1st Prgr: On 737kHz: 00.55-12.00, 12.30-21.03. **Own Prgr's:** 02.00-03.00, 03.30-06.00, 14.00-16.00 — **N: Russian:** 02.00, 14.00. **Bashkirian:** 03.30, 15.30 — **Rel. R. Moscow:** 01.00-02.00, 03.00-03.30, 06.00-12.00, 16.00-21.00 (2nd Prgr. incl. N at 01.00, 03.03, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 16.00, 17.00, 18.00, 19.00) — **German:** 12.00-12.30 (N, Prgr).

R. DUSHANBE — Addr: Gorod Dushanbé, ul. Ordzonikidee 7, Dushanbé, Tadjik SSR.

1st Prgr: 00.00-21.03 on 254/4635kHz in Tajik, Russian, Uzbec. **N. in Tajik:** 00.04, 05.50, 11.50, 16.00, 17.00. **N. in Russian:** 04.45, 14.00. **N. in Uzbec:** *13.00* — **2nd Prgr:** *08.00-13.30 on 800/4975kHz.* **Own Prgr:** 09.00-10.10, 10.25-11.30, 12.00-13.30. **Ann:** Tadjik: "Insto Dushanbé". Russian: "Govorit Dushanbé".

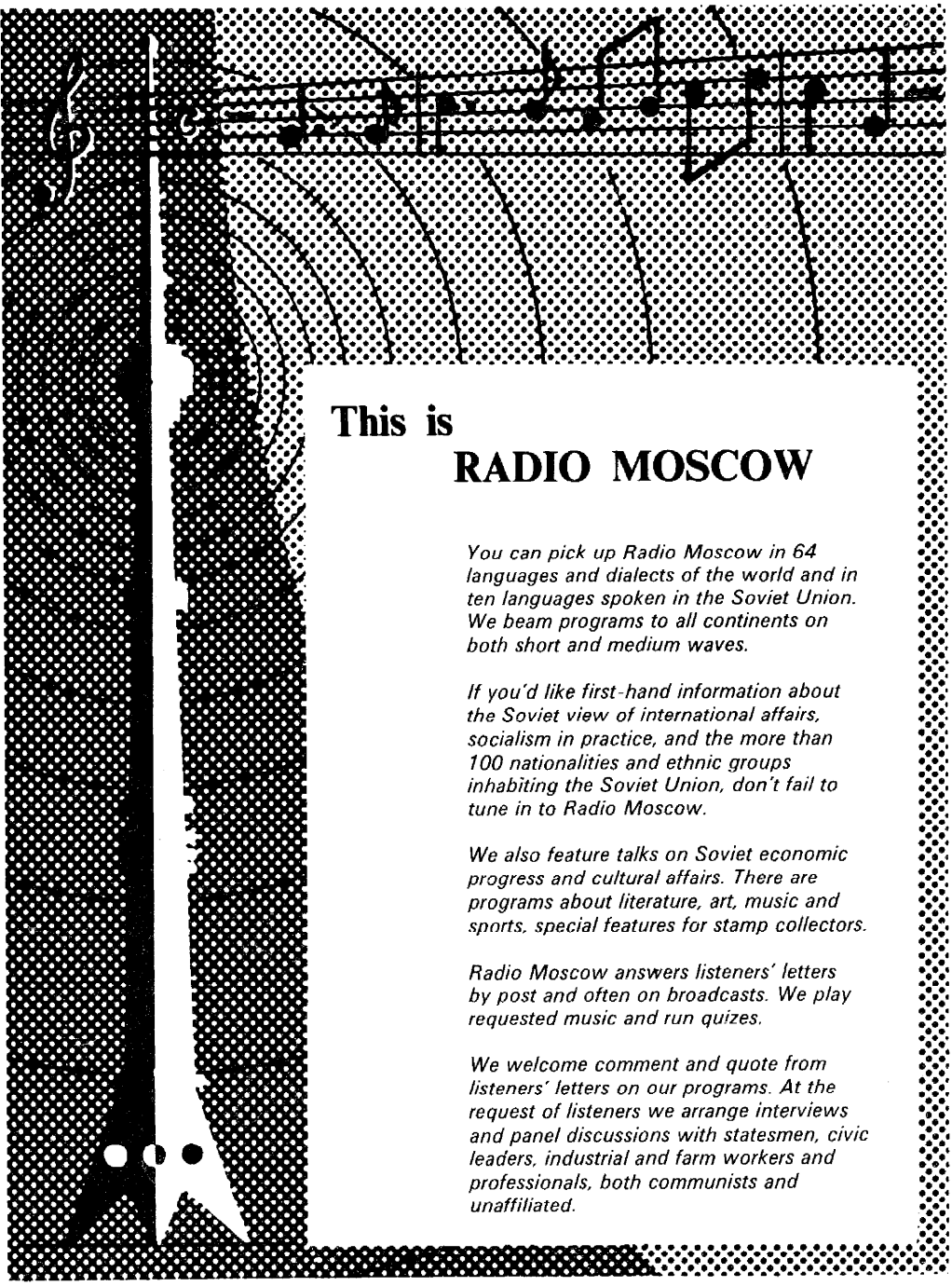
R. FRUNZE: 1st Prgr: In Kirghiz, Russian, German: On 611/4008kHz: Mon-Fri 00.00-09.35, 11.00-20.00, Sat/Sun 00.00-20.00. **N: (Kirghiz & Russian):** 01.00, 08.00, 13.00 — **Folklore:** 00.05 — **German:** Tues 03.45-04.00, Sat 10.40-11.00 — **Rel. R. Moscow:** 01.20-02.15, 05.45-06.15, 11.30-12.30, 17.00-20.00 — **N: (R. Moscow):** 00.30, 02.00, 03.00, 04.00 (Press), 05.00, 15.00, 16.00, 17.00 — **Ann:** "Govorit Frunze", "Hier ist Frunse".

R. KALININGRAD: 1st Prgr: 1115kHz/66.0MHz: 02.00-22.00. **Own Prgr's:** D *05.11-06.00, W 11.10-11.30 Sun 10.00-11.00, 14.01-15.00* (Tues, Thurs, Sat, Sun), 15.30-17.00 (Mon, Wed, Fri). **N:** 05.15, 12.45 (navigation N), 14.30 or 15.30. Other times Rel. R. Moscow II.

RADIO KHABAROVSK (Gov.)

Addr: ulina Hapagina 80, Khabarovsk.

Home Sce. in Russian: 18.00-13.00. Freq's used 4610, 7210, 9375, 9500, 9645, 9770, 12040kHz — **ANN:** "Govorit Khabarovsk" — **V.** by QSL-card. Re. in English or Russian Rp.



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ADDRESS:

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USSR

R. KIEV — Addr: Ukrainske Radio, R. Centre, ul. Khreshchatik 24, Kiev, Ukrainian SSR.
1st Prgr: On 209kHz: 01.55-10.00, 13.00-22.00 (Sun 01.55-22.00). On 782kHz: 01.55-04.10, 04.40-12.00. On **4940kHz:** 03.55-13.00; On **6020kHz:** 05.30-13.30; On 68.5MHz: 01.55-04.10, 04.40-12.00, 13.00-22.00 — **2nd Prgr:** On 782kHz: 13.00-14.00, 15.00-15.30. On **4940kHz:** 13.00-16.00; On **6020kHz:** 15.00-16.00.
Special Informative & Musical Prgr: On 782kHz: 06.00-15.30; On 385 kHz (Kharkov): 06.00-12.00; On 836kHz (Vinnitsa): 16.00-22.00; On 1241/1403/1376kHz: 16.00-22.00; On **4940kHz:** 16.00 (Sun 09.00)-21.00; On **7210kHz:** 13.00-16.30 — **Third Prgr.** (71.77MHz): 16.00-20.00. **Ann** (Home & Foreign Sce): "Hovorit Kiyiv" — **V.** by QSL-card.

R. KISHINEV — L.P: Pres: I. Dobanda.
In Moldavian, Russian: 03.00-23.00 on 998kHz. **Own Prgr's:** 03.15-04.00, 04.30-06.00, 07.30-11.00, 12.44-14.00, 17.00-19.00. **Ann:** "Vorbeste Chisinau" (Moldavian), "Govorit Kishinev".
R. LENINGRAD (In Russian):
1st Prgr: 02.00-22.00 on 800/11700kHz + FM.
2nd Prgr: 02.57-12.00, 13.00-23.00 on 1124kHz + FM. **Own Prgr:** 03.30-04.00 (also on 800kHz), 05.10-06.00. **N:** 03.30.
RADIO MAGADAN
Home Sce. in Russian: 18.00-13.00. Freq's used: 5940, 7380, 12240kHz — **Own Prgr:** 18.30 — **Relay R. Moscow:** 19.00(N)
RADIO PETROPAVLOVSK
Home Sce. in Russian: 18.00-13.00 on 11690kHz. Prgr. for Fishing Fleets in the Pacific on Sun at 19.00.
ANN: "Govorit Petropavlovsk — Kamchatskiy" (on Sun: "R. Stanzia Tikhiy Okeahn" (R. St. Pacific Ocean.)
R. RIGA
Addr: Latvijas Radioraidijumu un televizijas Komiteja, P.O. Box 266, Riga. **Cable:** "Latradio"
Home Sce. in Latvian, Russian:
1st Prgr: On 575/1349kHz + FM: 03.00-22.00 (Sat/Sun 23.00), from 21.03 also on 1421kHz. **N. in Latvian:** 03.17, 05.00, 07.00 (W), 09.00 (W) 10.45 (W), 13.00 (W), 18.00, 20.50 — **Press review:** 06.00 — **Concert:** 05.15, 09.10 (W), 21.03 — **Folklore:** 03.30 — **Prgr. preview:** 14.05 (Sun 14.55) — **Russian:** Tues 16.15, Wed 03.45.
2nd Prgr: On 1142/1421/1484kHz: 03.00-22.00 (Fri/Sat 23.00); from 21.03 also on FM. **Own Prgr:** 03.00-13.00.
Ann: Latvian: "Runa Riga" — **PUB:** "Rigas Vilni" (weekly) — **V.** by QSL-card.
R. TALLINN — Addr: Eesti Raadio ja Televisioon, Postkast 402, Tallinn. **Te:** 292311. **Cable:** "Estradio" — **L.P:** Pres: E. Jaanimägi. Vice Pres: U. Koit.
1st Prgr: 02.55 (Sun 03.25)-21.03.
Estonian: W 02.55-09.15, 10.00-16.00; Sun 03.25-08.00, 09.15-16.00; D 16.30-21.03 on 1034/6085kHz; W 02.55-05.45, 06.00 (Fri 07.00)-14.00 15.00-21.03; Sun 03.25-08.30, 10.00-21.03 also on 1331/1214kHz. **N:** 03.05 (W), 03.35 (Sun), 04.30 (W), 05.00 (exc. Mon), 07.00 (W), 08.00 (W), 10.00 (W), 12.00, 13.00 (W), 15.00 (W), 16.30, 18.00, 20.00.
2nd Prgr on 710/1586kHz + FM: 13.30-18.00 Estonian light prgr. (05.00-13.30, 18.00-21.00 rel. to R. Moscow II).
3rd Prgr (FM only): 03.00-23.00 concerts and educational prgr's.
Russian: Own prgr's on 1214/1331/1511kHz + FM: W 05.45-06.00 (Fri 07.00), 14.00-15.00; Sun 08.30-10.00 — **N:** 14.00 (W). **V.** by QSL-card.
R. TASHKENT-Addr: Uzbek Radio, ul. Khorezmskaya 49, Tashkent, **L.P.** Pres: Y. U. Ibragimov.
In Uzbek, Tadjik, Russian, Uighur, Kazakh, Tatar:
1st Prgr: 00.00-09.00, 10.00-18.00 (18.00-20.00 rel. Moscow) on 164/5925kHz — **N:** Uzbek: 00.03, 02.15, 07.00, 10.00, 13.00, 17.00. Kahzakh: 12.30. Tadjik: 03.45. Tatar: Tues, Thurs, Sat 03.53
Prgr. in Uighur: 12.30-13.30, 14.30-15.00, 15.30-16.00 — **Folk music:** Kazakh 13.20 (Wed), 11.20 (Mon), Tatar 13.20 (Thurs), 11.00 (Fri). Uighur 11.20 (Sat).
N. (from R. Moscow): 01.00, 02.00, 03.00, 04.00, 05.00, 09.00, 18.00, 19.00 —
2nd Prgr. (in Uzbek, Tadjik, Russian) on 400kHz: 00.00-02.15. Music: 02.25 — **Prgr in Tadjik:** 14.00-14.30 (Sun 15.00-15.30) — **Folk music** Tadgik 14.00 (Sun 15.00), Azerbaijanian: 14.30 (Sat), Tatar 15.30 (Sat), Karakalpak 14.30 (Tues) — **Ann:** "Tashkentdan gapiramis" — **INT-SIG:** see Foreign Sce.
R. TBILISI — L.P: Pres: P. Yu Shamotava.
In Georgian, Russian, Adshar, Osset: On 191/5040kHz: 01.58-10.00, 14.00-21.03 — **Own Prgr's:** 02.00-03.00, 03.30-04.00, 04.20-10.00, 14.00-15.00, 16.00-20.00
R. TSELINOGRAD (Kazakhstan).
Home Sce. in Russian, Kazakh, German on 227/782kHz: 00.00-20.00. Own prgr's: D 01.45-02.00 (N, Press review), 02.15-03.00, 12.00-14.00 (N, prgr) — **German:** Wed, Fri 04.10-04.40, Tues, Thurs, Sat 11.30-12.00 (R. Alma-Ata); D 12.00-12.30 (R. Moscow).
R. VILNUS — Addr: Lietuvos TSR Radijas, Konarskio g-ve 49, Vilnius — **1st Prgr. (Lithuanian):** On 665kHz: 03.55-21.00. **N:** 04.00 — **2nd Prgr. in Lithuanian, Polish, Russian:** On 1106/1554kHz: 03.55-21.00. **N:** 14.00, 19.30 — **Polish:** 18.30-19.00 — **Russian:** 15.25-16.00. **Ann:** Lithuanian: "Kalba Vilnius". Polish: "Tu Vilnius" — **V.** by QSL-card.
RADIO VLADIVOSTOK
Home Sce. in Russian: 18.00-13.00 on 4485, 7210, 7380kHz.
Ann: "Govorit Vladivostok"
R. YEVERAN — Addr: Armenian Radio, Mravian st. 5, Yerevan 25. **Te:** 25272 — **L.P.** Dir. Gen: J. S. Kirakossian. Dir. Tec: A. Blkvan.
1st Prgr. in Armenian, Azerbaidjan, Russian: 02.00-22.00. On 362/4040 kHz: 02.00-11.30 (Sat 12.20), 12.58-22.00; On 863/5740kHz: 02.00-09.15 (Sun 11.40); On FM only: 11.30-12.30; On 362/4040/FM only: 13.35-14.25.
N. in Armenian: 03.20, 08.10, 10.30, 13.00, 15.55, 18.30, 19.53 — **Azerbaidjan:** 14.25-14.30 (N); 04.40-05.00 (Fri) — **Russian:** 07.25-07.30 (N), 15.25-15.45 (Wed). — **Prgr. for Azerbaidjan & Gruzian workers:** Sun 11.00-11.40 — **Folklore:** 03.15, 10.00 (W) — **Local prgr. for Yerevan:** 13.30-14.00 on 362/4040kHz. **Rel. R. Moscow:** 02.00-03.00, 20.00-22.00 (incl. **N:** 02.03, 2050).
2nd Prgr. in Armenian, Azerbaidjan, Kurdish, Russian: 863/5740kHz: 10.30-14.20 — On 7270kHz: 10.30-19.00. On 7540kHz 15.00-18.55, 10.30-18.55 on FM — **Armenian:** 10.30-12.10, 15.00-18.55. **N:** 16.31 — **Azerbaidjan:** 13.30-13.50 — **Kurdish:** 12.10-13.10, 13.50-14.20. **N:** 12.10, 13.50.
3rd Prgr. in Armenian: (cultural): 11.00-12.50 on 4040kHz + FM. **Ann:** "Khosum e Yerevan" — **Int-Sig:** Ringing melody from an Armenian folklore song "Garaouna" — (Spring) by Komitas — **V.** by QSL-card. Reports in English, French, Armenian, Russian.

BROADCASTS FROM THE SOVIET COMMITTEE FOR CULTURAL RELATIONS with Fellow countrymen abroad.
ADDR: Sovietskiy komitet po kulturnym svazyam s sootechestvennikami za rubejom, Bolshoj Kharitonyevskij pereulok 10, Moscow K-62 **Te:** K4-60-16. **Branch in the German Democratic Republic:** Postal Addr: 108, Berlin 8 — **D. Prgr:** "Radiostantsiya Rodina".
To Europe: 06.00-07.00 on 1322kHz and in 41, 25, 19, 16m.b.; 14.00-15.00 in 25, 19, 16, 13m.b.; 18.00-19.00 in 41, 25, 19, 16m.b.; 20.00-21.00 on 1493kHz and in 41, 31, 25, 19m.b.
To the Americas: 22.30-23.30 on 31, 25, 19, 16m.b. 01.00-02.00 in 31.25, 19 m.b.
In Russian: 06.00-06.30, 14.00-15.00, 18.00-18.30, 20.00-20.30, 22.30-23.30, 01.00-01.30. Prgr's from the republics: 05.30-06.00, 17.30-18.00, 01.30-02.00.
V. by letter. Re to Radio Station Rodina, Moscow Radio, Moscow.

FOREIGN SERVICES

RADIO MOSCOW

Albanian	**m.b.**
15.30-16.00	41a, 31, 25, 19b, 16b
17.30-18.00	337, 321, 41b, 31, 25b, 19b, 16b
18.30-19.00	337, 41a, 31, 25b, 19b
19.30-20.00	337, 49a, 41a, 31 25b, 19b
20.30-21.00	337, 49a, 41, 31, 25b, 19b.
21.30-22.00	337, 49a, 41a, 31, 25b
Bulgarian	
16.30-17.00	337, 320, 41a, 31, 25, 19b, 16b
18.00-18.30	337, 49a, 41a, 31 25b, 19b
Danish	
17.00-17.30	49a, 41a, 31b, 25b, 19b
18.30-19.00	216, 49a, 41a, 31b, 25b, 19b
Dutch	
17.30-18.00	49a, 41a, 31, 25b, 19b
19.30-20.00	216, 49, 41a, 31, 25b, 19b
Czech/Slovak	
04.30-05.00	337, 194, 49, 41, 31, 25b, 19b
05.00-06.00	1141, 337, 194 49, 41, 31, 25b, 19b
06.00-06.30	1141, 337, 194, 49, 41, 31, 25b
06.30-07.00	1141, 337, 194, 49, 41, 31, 25b, 16
07.00-07.30	337, 194, 49, 41, 31, 25
07.30-08.00	337, 194, 49, 41, 31, 25, 19, 16
12.00-13.00	1141, 337, 49, 41 25, 19, 16
15.30-16.00	257, 194, 49, 41, 31a, 19b
16.00-17.00	257, 194, 49, 41 31, 19b
17.00-18.00	1141, 257, 194, 49, 41, 31, 19b
18.00-18.30	257, 49, 41, 31, 19b
18.30-19.30	257, 194, 49, 41, 31, 19b
19.30-20.00	257, 49, 41, 31, 19b
20.00-20.30	257, 194, 49, 41, 31, 19b
20.30-21.30	257, 194, 49, 41, 31a, 19b
21.30-23.00	321, 257, 49, 41, 31a, 19b
Finnish	
16.30-17.30 / 18.30-19.00	201, 49a, 41, 31b

French	**m.b.**
17.30-18.00	41a, 31a, 25b, 19b, 16b
18.00-19.30	41a, 31, 25b, 19b, 16b
20.30-21.00	49a, 41, 31b, 25b
21.00-21.30	227, 49a, 41 31, 25b
German	
06.00-06.30	227, 41a, 31, 25b, 19b,
10.00-11.00	227, 25, 19, 16, 13
16.00-17.00	227, 217, 49a, 41a 31, 25b, 16b
17.30-18.30	227, 217, 49a, 41a, 31, 25b, 16b
20.00-21.00	227, 217, 49a, 41a, 31b, 25b
German (for Austria)	
17.00-17.30	227, 49a, 41a 31a, 25b, 19b
19.30-20.00	227, 49a, 41a, 31b, 25b
Greek (*to Cyprus)	
16.00-16.30	337, 41a, 31, 25, 19b, 16b
17.00-17.30	337, 41a, 31, 25, 19b, 16b
18.00-18.30*	348, 41, 31a, 25b, 19b
19.00-19.30	337, 41a, 31, 25, 19b, 16b
20.00-20.30	337, 321, 49a, 41a, 31, 25b, 19b
21.00-21.30	337, 309, 49, 41, 31, 25b
22.00-22.30	337, 301, 41, 31
Hungarian	
17.00-17.30	210, 49a, 41a, 31a, 25b, 19b
20.30-21.00	210, 49a, 41b, 31a, 25b
Italian	
13.30-14.00	25, 19, 16, 13
17.30-18.30	210, 49a, 41, 31a, 25b, 19b
19.30-20.30 / 21.00-21.30	210, 49a, 41, 31, 25b
Macedonian	
18.30-19.00	210, 49a, 41, 31, 25b, 19b
Norwegian	
17.30-18.00 / 19.30-20.00	201, 49a, 41 31b
20.00-20.30	457
Polish	
17.00-17.30	217, 49a, 41a, 31, 25b, 16b
19.00-19.30	217, 49a, 41a, 31b, 25b
21.00-21.30	321, 217, 49a, 41a, 31b, 25b
Portuguese	
18.30-19.00	41a, 31a, 25, 16b
19.30-20.00	41a, 31, 25b, 16b

Rumanian	m.b.
16.00-16.30	321, 49a, 41a, 25b, 19b
17.00-17.30	321, 41a, 31, 25b, 19b
18.00-20.00	321, 49a, 41a, 31b, 25b, 19b
Serbo-Croat	
16.00-17.00	49a, 41a, 31, 25b, 19b
18.00-18.30	194, 41a, 31b, 25b
19.00-19.30	210, 49a, 41, 31, 25b
20.30-21.00	321, 49a, 41, 31b, 25b
Slovenian	
19.30-20.00	194, 49a, 41, 31b, 25b
Spanish	
18.00-18.30	41a, 31a, 25, 19b, 16b
19.00-19.30	31a, 31, 25, 16b
20.00-21.00*	41a, 31, 25b, 16b
21.30-22.30	49a, 41, 31, 25a

* = incl. Catalan Tues/Thurs/Sat at 20.30-21.00

Swedish	
18.00-18.30 / 19.00-19.30	201, 49a, 41, 31b

TO AFRICA

Arabic	m.b.
18.30-19.00	41a, 31a, 25, 19b
21.00-21.30	49a, 41a, 25, 19b
Amharic	
15.30-16.00 / 16.30-17.00	25, 19, 16, 30
20.00-20.30	228, 41, 25, 19, 16, 13b
Bambara	
19.30-20.00	31a, 25, 19, 16
French	
05.00-05.15 / 06.15-06.30	41, 31, 25, 19, 16
16.00-16.30	25, 19, 16, 13
17.00-17.30 / 18.00-18.30	31a, 25, 19, 16, 13
19.00-19.30	41a, 31a, 25, 19b
20.30-21.00	31a, 25, 19b
Hausa	
06.00-06.15	31a, 25, 19, 16
06.45-07.00	25, 19, 16
17.30-18.00	31a, 25a, 19, 16
18.30-19.00	31a, 25a, 19, 16, 13
20.00-20.30	41a, 31a, 25, 19a, 16
Lingala	
18.00-18.30	25, 19, 16, 13b
Malagasy	
15.00-15.30	19, 16, 13
Peul	
21.30-22.0	31, 25, 19b
Portuguese	
05.30-06.00	41, 31, 25, 19, 16
16.30-17.00	25, 19, 16, 13
19.00-19.30	31a, 25, 19, 16, 13b
20.00-20.30	31a, 25, 19, 16b
Shona & Sindebele	
10.00-10.30	25, 19, 16, 13
15.00-15.30	25, 16a, 13
Somali	
14.00-14.30	25, 19, 16, 13
16.00-16.30	19, 16, 13
Swahili	
04.30-04.45 / 05.15-05.30	31, 25, 19, 16
12.00-12.30 / 17.00-17.30	25, 19, 16, 13
17.30-18.00	41a, 25, 19, 16b, 13b
18.30-19.00	41a, 25, 19, 16, 13b
19.00-20.00	228, 41a, 25, 19, 16, 13b
Zulu	
17.30-18.00	25, 19, 16, 13b

TO NEAR & MIDDLE EAST

Arabic	m.b.
04.00-04.30	41, 31, 25, 19, 16b
12.30-13.00	41, 31a, 25, 19
14.00-14.30	16, 13
16.00-16.30	309b, 41, 31a, 25, 19, 16
17.00-17.30	228, 41a, 31a, 25b
17.30-18.00 / 18.00-18.30	309, 232, 228, 49 41a, 31a, 25b, 19b
Arabic	m.b.
19.00-20.30	309, 232, 49, 41, 31a, 25b, 19b
20.30-21.00*	309, 41a, 31a, 25, 19b
21.30-22.00	228, 41, 31, 25, 19b, 16b

* to Mahgreb countries

French	
20.00-20.30	41a, 31a, 25, 19b
Dari	
13.00-13.30	375, 25, 19
15.00-15.30	375, 31a, 25, 19b, 13b
Persian	
09.30-10.00 / 11.30-12.00	25, 19, 16, 13
15.00-15.30	348, 41a, 31a, 25, 19b
16.30-17.30	348, 49a, 41, 31a, 25b, 19b
18.30-19.00	348, 49a, 41, 31a, 25b, 19b
Pushtu	
13.30-14.00	375, 25, 19
16.30-17.00	375, 31a, 25, 19b, 16b
Turkish (* to Cyprus)	
10.30-11.00	25, 19, 16, 13
13.30-14.00	41, 31a, 25, 19, 16
14.30-15.00	41, 31a, 19, 16b
*15.30-16.00	309, 41, 31a, 25, 19, 16b
16.30-17.30	309, 41, 31a, 25b, 19b
18.30-19.00	309, 41, 31a, 19b

TO SO. & SO. EA. ASIA

Bengali	m.b.
11.00-11.30*	25, 19, 16, 13
12.00-12.30*	25, 19, 13b
12.00-12.30**	19, 16, 13
13.00-13.30**	25a, 19, 16, 13
15.00-15.30**	31a, 25a, 19, 16b, 13b

*) to India; **) to Pakistan

Burmese	
10.30-11.00	25, 16, 13
12.30-13.00	19, 16, 13
14.30-15.00	25, 19, 16b, 13b
Cambodian	
11.00-11.30	25, 19, 16, 13
13.00-13.30	19, 16, 13
Hindi	
11.30-12.00 / 12.30-13.00	232, 25, 19, 16, 13
13.00-13.30	232, 25, 19
15.30-16.30	16b, 13b
Indonesian	
07.30-08.00	16, 13
09.30-10.00	25, 19, 16, 13
11.30-12.00 / 12.30-13.00 / 13.30-14.30 / 15.00-15.30	19, 16, 13
Laotian	
12.30-13.00	19, 16, 13
14.00-14.30	25a, 19, 16, 13a
Malayan	
11.30-12.00 / 13.30-14.00	25a, 19, 16, 13
Marathi	
11.00-11.30	25a, 19, 16, 13
13.00-13.30	19, 16, 13
Nepali	
15.30-16.00	31a, 25, 19b, 13b
Punjabi	
13.30-14.00	232, 31a, 25, 19, 16, 13
14.30-15.00	25a, 19, 16, 13
Sinhalese (to Ceylon)	
15.00-16.00	31a, 25a, 19, 16b, 13b
Tamil	
12.30-13.00 / 14.00-14.30	19, 16 13
Telugu	
12.00-12.30	19, 16, 13
14.30-15.00	25a, 19, 16, 13b
Thai	
11.30-12.00	25, 19, 16, 13
13.30-14.00	19, 16, 13b
Urdu	
12.00-12.30*	232, 25, 19, 16, 13
13.00-13.30**	232, 25, 19, 16, 13
14.30-15.00*	232, 31a, 25, 19, 16, 13b
Urdu	m.b.
16.30-17.30**	232, 31a, 25a, 19b, 16b, 13b

*) to India **) to Pakistan

Vietnamese	
22.30-23.00	31a, 25a, 19, 16
10.30-11.00 / 11.00-11.30	25, 19, 16, 13
12.00-12.30 / 13.00-13.30	19, 16, 13
14.30-15.00	25a, 19, 16, 13
15.00-15.30 / 16.00-16.30	31a, 25a, 19, 16b, 13b
16.30-17.00	31a, 19, 16b

TO FAR EAST

Chinese	
22.30-23.00	240, 203, 49, 31, 25, 19
23.00-23.30	240, 49a, 31a, 25, 19, 16
00.00-00.30	31, 25, 19a, 16
01.00-01.30	31a, 25a, 19, 16
02.00-02.30	31a, 25, 19, 16
03.00-04.00	25, 19, 16
04.00-05.00 / 05.30-06.00	25b, 19, 16
06.30-08.00	25, 19, 16, 13
08.30-09.00	547, 25, 19, 16, 13
09.00-09.30 / 10.00-10.30	547, 240, 25, 19, 16, 13
11.00-11.30	278, 240, 25, 19, 16b
11.30-12.00	240, 49a, 25, 19, 16b
12.00-12.30	547, 278, 240, 49a, 31, 25, 19
12.30-13.00	547, 240, 49a, 31, 25, 16, 13
13.00-13.30	547, 240, 49, 41 31, 25, 19b
14.00-14.30	547, 278, 240, 49, 41, 31, 25, 19b
15.00-15.30	547, 278, 240, 203, 49, 41, 31, 25b, 19b, 16b
15.30-16.00	547, 278, 240, 203, 49, 41, 31, 25b, 19b
16.00-17.00	547, 292, 278, 203, 49, 41, 31, 25b
17.00-17.30	547, 278, 203, 49a, 41, 31, 25b
18.00-19.00	278, 203, 49, 41, 31, 25a
19.00-19.30	278, 240, 228, 203, 49, 41a, 31, 25a
20.00-21.00	278, 240, 228, 203, 49, 41a, 31, 25a
21.30-22.00	547, 278, 240, 228, 203, 49a, 41a, 31, 25b, 19b
Japanese	
08.00-08.30 / 08.30-10.30	477, 203, 41a, 31, 25, 19b
10.30-12.00	477, 203, 41a, 31b, 25, 19, 16, 13
12.00-12.30	477, 203, 41a, 31b, 25, 19, 16b
13.00-13.30	477, 203, 49a, 41a, 31, 25b, 19b, 16b
14.00-14.30	477, 203, 49a, 41a, 31, 25b, 19b, 16b
Korean	
21.00-21.30	547, 240, 49, 31, 25b, 19b
22.00-22.30	547, 240, 49a, 31b, 25, 19
09.30-10.00 / 10.00-10.30	547, 49a, 41b, 25 19, 16, 13
11.00-11.30	547, 203, 49a, 31, 25, 19b
11.30-12.00	547, 49a, 31, 19b, 16b, 13
13.30-14.00	547, 49a, 41a, 31, 25b, 16b
Mongolian	
03.20-03.40	25a, 19, 16, 13a
05.20-05.50	19,16
Mongolian	m.b.
09.30-10.00	278, 25, 19, 16, 13a
11.30-12.00	278, 25, 19
13.15-14.00	278, 49a, 41a, 31b, 25b, 19b

TO LATIN AMERICA

Quechua	m.b.
21.30-22.00	31a, 25, 19b
00.30-01.00	19, 16
Portuguese	
22.00-23.00	31, 25, 19b
00.00-00.30 / 02.00-02.30	41a, 31, 25, 19b
Spanish (to Cuba)	
23.30-24.00	41a, 31, 25
00.00-02.00	41a, 31, 25
Spanish (to So. America)	
1st Prgr.	
23.00-24.00 / 01.00-01.30 / 02.30-03.30 / 03.30-04.00	41a, 31, 25, 19b
2nd Prgr.	
01.00-03.00	19, 16
Spanish to Ce. America	
02.00-04.00	41a, 31, 25

PROGRAMMES IN ENGLISH

To Europe	m.b.
07.00-07.30	31, 25, 19, 13
12.00-12.30	25, 19, 16, 13
19.00-19.30	227, 49a, 41a, 31b, 25b, 19b
20.00-20.30	49a, 41, 31b, 25b, 19b
21.00-22.00	201, 49a, 41, 31, 25b
22.00-22.30	227, 217, 201, 49a, 41, 31, 25b
To Pacific/Far East	
11.00-11.30	477, 49a, 41a, 31b, 25b
11.30-12.00	477, 203, 41a, 31b
12.30-13.00	477, 203, 49a, 41a, 31, 25b, 19b
13.30-14.00	477, 203, 49, 41a, 31b
To So. East Asia	
10.00-10.30	25, 19, 16, 13
11.00-11.30	25, 19, 16, 13
15.00-15.30	232, 31a, 25, 19b, 16b
16.00-16.30	31a, 25, 19b, 16b, 13b
To Africa	
04.45-05.00 / 06.30-06.45	41, 31, 25, 19, 16
10.00-10.30	19, 16, 13
15.30-16.00	25, 19a, 16, 13
18.00-18.30	41a, 25, 19, 16, 13b
18.30-19.00	49, 31a, 25, 19, 16, 13b
19.00-19.30	31a, 19, 16
19.30-20.00	31a, 25, 19, 16
20.30-21.00	228, 49a, 41a, 31a, 25, 19, 16, 13b
21.00-21.30	228, 41a, 31a, 25, 19, 16b
21.30-22.00	228, 49a, 41a, 31, 25, 19b
22.30-23.00	49a, 41a, 31, 25, 19b
To No. America	
1st Prgr.	m.b.
22.00-22.30	31, 25
23.00-23.30 / 00.00-00.30 / 01.00-01.30	41a, 31, 25
01.30-02.00 / 02.00-03.00	31, 25
03.00-03.30	41a, 31, 25b
04.00-04.30	41a, 31, 25
04.30-05.00	41a, 31a, 25
05.00-05.30	41a, 31, 25
2nd Prgr.	
03.30-04.00	25a, 19, 16
04.00-04.30	25, 19, 16
04.30-07.30	25, 19, 16b

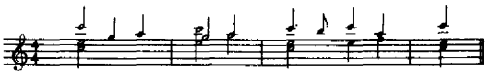
a) until 3/3 1969; b) from 4/3 1969.

R. ALMA ATA: Kazakh: 13.30-14.00, 15.00-15.30, 16.00-16.30 on 1020/5035/6135kHz.

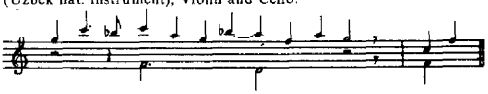
R. BAKU (on 4958, 6110, 9490kHz):
Azerbajan: 08.00-08.30, 13.30-14.00 in 49,31m.b. **Arabic:** 15.30-16.00 in 49,31m.b, 16.30-17.00 on 228,49,31m.b. **Persian:** 08.30-08.45, 13.00-13.30, 14.00-14.30 in 49,31m.b. **Turkish:** 15.00-15.30, 16.00-16.30, 19.00-19.50 in 49,31m.b.

USSR—Vatican State

ANN: Azerbajan: "Danishir Baku". Arabic: "Huna Baku". **Persian:** "Inja Baku". Turkish: "Burasi Baku" — **INT-SIG:**



R. DUSHANBE:
Persian: 15.30-16.30, 18.00-18.30 in 375,49m.b. — **Tadjik:** 14.00-15.00 on 375m; 16.00-16.30, 17.00-17.30 in 375,49m.b.
R. KIEV:
Ukrainian: To Europe: 16.30-17.00 in 31,25m.b, 18.00-18.30 in 31,25, 19m.b, 19.30-20.00 (Wed, Sun) in 41,25m.b, 20.30-21.00 in 31,25,19m.b, 22.30-23.00 on 1241kHz.
R. MINSK: Bielorussian: 18.30-19.00 in 25, 19 m.b; 21.30-22.00 in 31, 25 m.b. **Ann:** "Havoryts Minsk".
R. Riga: Latvian: 08.30-09.15 (Sun) and 19.30-20.00 (Wed) on 575/1349kHz; 21.15-22.00 (Mon) and 21.30-22.00 (Thurs) on 575/1349kHz; **Swedish:** 08.00-08.30 (Sun) on 575kHz; 20.20-20.50 (Tues/Thurs/Sun) on 575kHz, 21.30-22.00 (Wed/Fri/Sat) on 575/1349kHz.
R. Tallin: Estonian: 21.05-22.00 (Tues, Thurs, Sat) on 1034/6085kHz — **Finnish:** 08.00-09.15 (Sun) on 1034/6085kHz, 09.15-10.00 (W) on 1034kHz, 16.00-16.30 on 1034/6085kHz—**Swedish:** 21.05-22.00 (Mon, Tues, Thurs) on 1034/6085kHz. **Ann.** Finnish "Täälla, Tallina"; Swedish: "Här är Tallin"—V, by QSL-card and letter.
R. TASHKENT in 31, 25m.b. (9600, 11925kHz):
English: 12.00 12.30 and 14.00-14.30 **Hindi:** 13.00-13.30 and 15.00-15.30—**Persian:** 16.00-16.30, 17.30-18.00—**Urdu:** 12.30-13.00 and 13.30-14.00—**Uzbek:** 16.30-17.30 (Tues, Fri 17.00)—**Arabic:** 17.00-17.30 (Tues & Fri only).
ANN: "This is Tashkent Calling" — INT-SIG: played on Chang (Uzbek nat. instrument), Violin and Cello.



V, by QSL-card — Pub: Prgr. schedule free.

R. TBILISI: Grusian: 13.45-14.15 in 49 m.b. (Sun only).

R. VILNIUS: Lithuanian: To Europe: 21.00-22.30 (exc. Fri and Sun) on 665/1106/1554kHz; To the Americas: 22.30-23.00 on 9500/11950/12030/15220kHz (March/April on 9500/11775/11950/15220/17700kHz).
English: Fri and Sun 21.00-21.30 on 665/1106/1554kHz, 23.30-23.00 on 665/1106/1554/11790/11950/15220kHz (March/April on 11775/11950/15220/17700kHz).
R. YEREVAN
Armenian: 06.00-07.25 (Sun) to Near East on 863/4040/7270kHz; 08.00-09.00 (Sun) to Europe in 25, 19 m.b. (French 08.50-09.00); 15.30-16.30 to Near East on 863/7270kHz, 19.00-20.35 to Near East on 863/4040/7270kHz, 03.00-04.00 (exc. Mon, Tues, Fri) to North American in 19, 16 m.b.
Arabic: 14.20-15.00 on 863/4040/7270kHz, 18.30-19.00 on 1313/4040/7270kHz.
To the Americas: 22.30-23.00, 23.30-24.00, 00.30-01.00 (exc. Tues, Fri, Sun) in 31,25m.b; 03.30-04.00, 04.30-05.00 (exc. Tues, Fri, Sun) in 25m.b. (from March 7th also in the 19,16m.b.)
English: To Europe: 19.30-20.00 (Mon, Thurs, Sat) in 25m.b, To America: 00.30-01.00 (Tues, Fri, Sun) in 31,25m.b; 04.30-05.00 (Tues, Fri, Sun) in 25m.b. — **German:** Tues/Fri 19.45-20.00 in 31.25m.b; 22.45-23.00 on 1241kHz — **Ann:** "Havoryt Kiev". E: "This is R. Kiev". G: "Hier ist R. Kiev" — V. by letter or QSL-card.

RADIO STATION "PEACE AND PROGRESS"

belongs to Soviet public organisations and broadcasts to Europe, Asia, Australia, Africa, Near & Middle East and Latin America.
ADDR: Radio Station "Peace and Progress", Moscow. **Te:** 2336465 — **L.P:** Editor-in-Chief: L. Talanov. Exc. Secr: Y. Malykin.

SCHEDULES

TO EUROPE	to 3/3 1969	from 4/3 1969
German	**m.b.**	**m.b.**
15.30-16.00	227, 217, 49, 41, 31	227, 217, 31, 25, 16
TO ASIA		
Chinese — Canton dialect		
10.00-10.30	19, 16, 13	19, 16, 13
11.30-12.00	16, 13	16, 13
Chinese — Peking dialect		
21.00-21.30	278, 203, 41, 31	278, 203, 31, 25
22.00-22.30	278, 203, 41, 25, 19	278, 203, 25, 19, 16
23.30-24.00	240, 49, 25, 19, 16	240, 31, 25, 19, 16
00.30-01.00	41, 31, 25, 19, 16	31, 25, 19, 16
01.30-02.00	31, 25, 19, 16	19, 16
02.30-03.00	25, 19, 16	25, 19, 16
04.00-04.30	25, 19, 16	25, 19, 16
05.00-05.30	19, 16	25, 19, 16
06.00-06.30	25, 19, 16, 13	25, 19, 16, 13
08.00-08.30	25, 19, 16, 13	25, 19, 16, 13
11.00-11.30	240, 25, 19, 16, 13	240, 25, 19, 16, 13
14.30-15.00	547, 240, 49, 41, 31	547, 240, 49, 41, 31, 25, 16
17.30-18.00	547, 278, 203, 49, 41, 31	547, 278, 203, 41, 31, 25
19.30-20.00	278, 240, 228, 203, 49, 41, 31	278, 240, 228, 203, 49, 31, 25
Shanghai dialect		
10.30-11.00	25, 19, 16, 13	19, 16, 13
12.00-12.30	25, 19, 16, 13	19, 16, 13

Mongolian	**m.b.**	**m.b.**
09.00-09.30	278, 25, 19, 16	278, 25, 19, 16
11.00-11.30	278, 25, 19, 13	278, 25, 19, 13
12.45-13.15	278, 49, 41, 19	278, 25, 19
14.30-15.00	278, 49, 41	278, 25, 19
English		
10.30-11.00	25, 19, 16, 13	25, 19, 16, 13
12.00-12.30	19, 16, 13	19, 16, 13
French		
10.00-10.30	25, 19, 16, 13	25, 19, 16, 13
TO AFRICA		
English		
14.30-15.00	25, 19, 16, 13	25, 19, 16, 13
French		
19.30-20.00	31, 25	25, 19
Portuguese		
13.00-13.30	25, 19, 13	25, 19, 13
TO NEAR AND MIDDLE EAST		
Hebrew		
15.00-15.30	309, 41, 31, 19	41, 19, 16
Yiddish		
17.30-18.00	347, 41, 31	347, 41, 19
TO LATIN AMERICA		
English		
00.00-00.30*	41, 31	25, 19
French		
00.00-00.30**	41, 31, 25	31, 25, 19
Guarani		
00.30-01.00	31, 25	31, 25
Portuguese		
00.30-01.00	41, 31, 25	31, 25, 19
Spanish		
01.30-02.00	41, 31, 25	31, 25, 19
04.00-04.30	41a, 31, 25b	31, 25

*) Wed & Sat only, **) Thurs & Sun only.
a) to 1/2/69; b) from 1/2/69.
ANN: E: "This is Radio Station 'Peace and Progress' the voice of Soviet Public Opinion." F: "Ici l'emetteur 'Paix et Progrès', la voix de l'opinion publique soviétique". G: "Hier ist der Sender 'Frieden und Fortschritt'". P: "Fala a emissora 'Paz e Progresso!'" "Fala a emissora porta-voz de opinião publica soviética". Sp: "Transmite la Radio-emisora de la opinión pública Soviética. Transmite la Radioemisora 'Paz y Progreso'"
INT-SIG:

V. by QSL-card.

VATICAN STATE

L.T: GMT + 1 h.

VATICAN RADIO (Rel.)

ADDR: Vatican Radio, Vatican City. **Cable:** Vatican Radio. **Te:** 6982. **Telex:** SCV 61031. **L.P:** Dir. Gen: Rev. G. Martegani S. J. Dir. Prgr: Rev. J. Blajiot S. J. Dir: N. Sce: Rev. F. Farusi S. J. Dir. Tec: Rev. Prof. A. Stefanizzi S. J. Chief Tr. Eng: M. Lemme. Chief Studio Eng: P. V. Giudici. Secr: Dott. G. Resmini.
STATIONS: Medium Waves:
782kHz 383.6m 2kW — 1529kHz 196.2m 250kW.
FM: 93.3/96.3MHz 0.5kW.
Short Waves: 25/50/100kW. **G.C:** 12.19E/42.03N & 12.27E/41.54N.

kHz	m	kHz	m	kHz	m	kHz	m
6145	48.82	9645	31.10	11895	25.22	17840	16.82
6190	48.47	11705	25.63	15120	19.84	17860	16.80
7155	41.92	11720	25.60	15210	19.72	17885	16.78
7250	41.38	11740	25.55	15255	19.66	21485	13.96
9545	31.43	11745	25.54	15285	19.63	21560	13.91
9615	31.20	11760	25.51	17820	16.84	21690	13.83

PROGRAM SCHEDULE (November 1968-March 1969)
The wavelengths are subject to change with seasonal variation or to avoid interference.
a) Tues, Thurs, Sat; b) Sun, Wed, Sat; c) Sun, Mon, Wed, Fri; d) Mon, Fri; *) Sun; **) W; ***) H. Rosary; †) Sun, Wed; ††) Thurs; †††) Sun & Holidays.

TO EUROPE		**kHz/Beams**
Albanian	20.30a	6190(86°)/7250(86°)/1529(nd)
Armenian	15.50b	11740(67°)/15120(67°)/1529(nd)
Bulgarian	17.15c	7250(86°)/9645(86°)/11740(89°)/1529(nd)
	11.10*	7250(86°)/9645(86°)/11740(89°)/1529(nd)
Czech	12.30	7250(26°)/9645(26°)/11740(13°)/1529(nd)
	19.30	6190(26°)/7250(26°)/9645(26°)/1529(nd)
English	15.00	9645(326°)/11740(319°)/15120(319°)/1529(nd)
	18.15	7250(326°)/9645(326°)/11740(319°)/1529(nd)
French	11.45	7250(326°)/9645(326°)/11740(319°)/1529(nd)
	14.30	9645(294°)/11740(319°)/15120(319°)/1529(nd)

		kHz/Beams
French	19.15	6190(326°)/7250(294°)/9645(326°)/1529(nd)
German	12.45	7250(354°)/9645(26°)/11740(355°)/1529(nd)
	14.45	9645(354°)/11740(13°)/15120(355°)/1529(nd)
	19.45	6190/(354°)/7250(354°)/9645(36°)/1529(nd)
Hungarian	13.00	7250(26°)/9645(26°)/11740(49°)/1529(nd)
	21.00	6190(26°)/7250(26°)/9645(54°)/1529(nd)
Italian	13.30	6190(114°)/7250(326°)/9645(26°)/11740(107°)/1529(nd)
	18.30	6190(114°)/7250(326°)/9645(26°)/1529(nd)
	16.00Fri	6190(114°)/7250(326°)/9645(354°)/1529(nd)
	21.30**	1529(nd)
	21.45*	1529(nd)
Latin	11.30a	7250(26°)/9645(26°)/11740(49°)/1529(nd)
	16.30a	7250(26°)/9645(26°)/11740(49°)/1529(nd)
	21.15a	6190(26°)/7250(26°)/9645(54°)/1529(nd)
	20.00***	6190(26°)/7250(54°)/9645(54°)/11740(175°)/1529(nd)
Latvian	07.00*	9645(26°)/11740(13°)
	18.00a	6190(26°)/7155(26°)/9645(26°)
Lithuanian	06.30*	9645(26°)/11740(13°)
	18.15	6190(26°)/7155(26°)/9545(26°)
Polish	12.15	7250(26°)/9645(26°)/11740(13°)/1529(nd)
	15.15	9645(26°)/11740(13°)/15120(13°)/1529(nd)
	19.00	6190(26°)/7250(26°)/9645(26°)/1529(nd)
Portuguese	15.30	9645(266°)/11740(269°)/15120(269°)/1529(nd)
	20.30	7155(266°)/9645(266°)
Rumanian	17.30	7250(54°)/9645(54°)/11740(67°)/1529(nd)
Russian	14.00	9645(54°)/11740(49°)/15120(49°)/1529(nd)
	18.00	7250(54°)/9645(54°)/11740(49°)/1529(nd)
Serbo-Croat	17.45	6190(49°)/7250(49°)/1529(nd)
Slovak	12.00	7250(26°)/9645(26°)/11740(13°)/1529(nd)
	20.15	6190(26°)/7250(26°)/9645(26°)/1529(nd)
Slovene	17.15a	6190(26°)/7250(26°)/9645(26°)/1529(nd)
	20.30d	6190(26°)/7250(26°)/1529(nd)
	10.50*	7250(26°)/9645(26°)/1529(nd)
Spanish	14.15	9645(266°)/11740(269°)/15120(269°)/1529(nd)
	20.45	6190(226°)/7250(266°)/9645(266°)/1529(nd)
Swedish/Norwegian	20.30†	6190(354°)/7250(26°)/1529(nd)
Ukrainian	17.00	7250(54°)/9645(54°)/11740(49°)/1529(nd)
White Ruth	06.15*	9645(26°)/11740(13°)
	18.00c	6190(26°)/7155(26°)9545(26°)
Concert	21.15*	6190(305°)/7250(354°)/9645(54°)/1529(nd)
	16.00††	6190(305°)/7250(354°)/9645(54°)/1529(nd)
Liturgy:		
Latin	08.30†††	7250(326°)/9645(354°)/11740(319°)/15120(49°)
Oriental	09.30†††	7250(326°)/9645(86°)/11740(107°)/15120(492)/1529(nd)
	16.15*	7250(54°)/9645(54°)/11740(49°)/1529(nd)

TO AFRICA

Arabic	16.50	11705(121°)/15210(121°)
	19.00	11760(229°)/15255(193°)
English	10.00**	17840(139°)/21485(139°)
	10.50**	17840(170°)/21485(170°)
	11.55**	17840(198°)/21485(229°)
	16.30	11705(139°)/15210(139°)
	17.10	11705(175°)/15210(175°)
	19.30	11760(229°)/15255(193°)
Ethiopian	16.00	11705(139°)/15210(139°)
French	10.15**	17840(139°)/21485(139°)
	11.05**	17840(170°)/21485(170°)
	12.10**	17840(198°)/21485(229°)
	16.15	11705(130°)/15210(139°)
	17.25	11705(175°)/15210(175°)
	19.15	11760(229°)/15255(193°)
Portuguese	10.35**	17840(170°)/21485(170°)
	18.40	11760(175°)/15255(175°)

TO AMERICA

Portuguese	23.00	9615(266°)/11895(229°)/15285(229°)
Spanish	23.30	9615(266°)/11895(229°)/15285(229°)
	00.00	6145(266°)/9615(266°)/11895(269°)
	00.30	6145(294°)/9615(294°)/11895(301°)
English	00.50	6145(294°)/9615(294°)/11895(319°)
French	01.10	6145(326°)/9615(326°)/11895(319°)

TO ASIA

Arabic	16.50	11705(121°)/15210(121°)
Chinese	22.30a	9645(54°)/11705(49°)
English	15.10**	17885(89°)/21560(89°)(for India)
	22.30 Mon, Wed, Fri	9645(54°)/11745(67°)(for Philippines)
Hindi/Tamil		
Malayalam	15.00**	17885(89°)/21560(89°)
Japanese	21.45 Mon, Wed, Fri	9645(54°)/11705(49°)

TO AUSTRALIA/NEW ZEALAND

English	11.30	17820(89°)/21690(89°)
	22.00	9645(86°)/11745(89°)

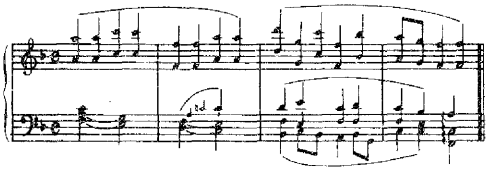
During March and April the schedule will be as above mentioned with the following alterations:

TO EUROPE		**kHz (Beams)**
Latvian	18.00a	7155(26°)/9545(26°)/11720(13°)
Lithuanian	18.15	7155(26°)/9545(26°)/11720(13°)
Portuguese	20.30	9605(266°)/11705(269°)
Swedish/Norwegian	20.30°	7250(26°)/9645(354°)/1529(nd)
White Ruth	18.00c	7155(26°)/9545(26°)/11720(13°)
TO AMERICA		**kHz (Beams)**
Portuguese	23.00	11895(229°)/15285(229°)/17860(238°)
Spanish	23.30	11895(229°)/15285(229°)/17860(238°)
	00.00	9615(266°)/11895(269°)/15285(269°)
	00.30	9615(294°)/11895(301°)/15285(301°)
English	00.50 (for USA)	9615(294°)/11895(319°)/15285(301°)
French	01.10	9615(326°)/11895(319°)/15285(319°)

nd) = omnidirectional antenna; All others are curtain antennas with reflectors.

NEWS, COMM: Italian 13.30, **Spanish** 14.15, **French** 14.30, **German** 14.45, **English** 15.00, **Polish** 15.15, **Portuguese:** 15.30

OPENING SIG: The Bells of St. Peter's.



ANN: "Laudetur Jesus Christus Praised be Jesus Christ. This is Vatican Radio".

INT-SIG: Carillon Melody "Christus Vincit" executed on the celeste with orchestral accompaniment — **V.** by QSL-card or letter. Recordings accepted — **PUB:** Prgr. sched. free on request.

YUGOSLAVIA

L.T: GMT + 1 h → **Pr.L:** Serbo-Croat, Slovenian, Macedonian.

JUGOSLOVENSKA RADIOTELEVIZIJA

ADDR: 70 Borisa Kidrica, Belgrade. **Te:** 43-677. **Cable:** Jugoslovenska radiotelevizija Beograd. **Telex:** 11469 yu jurate beograd.
L.P: Radiotélévision Yougoslave: Pres. Adm. Committee: V. Savić. Secr. Gen: Dr. I. Pustisek. Chief Foreign Rel: Mrs O. Vojvodić.
Board of Radio Prgr: Pres: M. Mercun. Secr: I. Pustisek. **Commission Political Broadc:** Pres: J. Jankulovski. Secr: Dr. I. Pustisek. **Commission Cultural Broadc:** Pres: N. Kujundzic, Secr: Mrs. O. Vojvodic. **Commission Musical Prgr:** Pres: S. Baric. Secr: Mrs. L. Frajt. **Prgr. Committee TV:** Pres: D. Ilić. Secr: M. Milosavljević. **Tech. Commission:** Pres: Eng. R. Galić. Secr: Eng P. Zdravković. **Jur. Commission:** Pres: Z. Urem. Secr: P. Tipsarević. **Commission Economic and Fin. Sce:** Pres: S. Fele. Secr: Mrs. Lj. Stosić. **Commission For. Rel:** Pres: S. Sabatka. Secr: Mrs. O. Vojvodić.
Radiotelevision Belgrade: Dir. Gen: Z. Vuković. Dir. Radio: V. Neoricić. Dir. Tec. Eng R. Zizić. **Radiotelevision Zagreb:** Dir. Gen: I. Bojanić. Dir. Radio: Mrs. L. Spajić. Dir. Tec: V. Trs. **Radiotelevision Ljubljana:** Dir. Gen: M. Mercun. Dir. Radio prgr. in ch. J. Gaspersić. Dir. Tec: Eng S. Pernus. **Radiotelevision Skopje:** Dir. Gen: M. Matevski. Dir. Radio: T. Simovski. Dir. Tec. for Transmitters and Links: Eng B. Oncevski. **Radiotelevision Sarajevo:** Dir. Gen: V. Savić. Dir. Radio: B. Zlobicki. Dir. Tec. A. Stefanović. **Radiotelevision Titograd:** Dir. Gen: M. Perović. Dir. Radio: A. Selhanović. Dir. Tec: Eng Lj. Kosović. **R. Novi Sad:** Dir: S. Sabatka. Dir. Tec: Eng I. Djukić. **R. Pristina:** Dir: R. Suroi. Dir. Tec: Eng I. Lozovoj.

MEDIUM WAVES: Main st's in bold types.

SERBIA	kHz	m	kW		kHz	m	kW
Belgrade I	683	439.0	400	Svetozarevo	1484	202.2	2
Nis	926	324.0	20	Novi Sad II	1484	202.2	2
Belgrade II	1007	297.9	200	Cacak	1484	202.2	0.1
Novi Sad I	1268	236.6	100	Valjevo	1484	202.2	0.1
Loznica	1403	213.8	1	Kisac	1565	191.7	0.02
Pristina	1412	212.4	100				

Yugoslavia — Afars & Issas

CROATIA	kHz	m	kW
Zagreb II	773	388.1	0.05
B. Manastir	773	388.1	0.07
Split II	782	383.6	2
Rijeka II	782	383.6	2
Sisak	782	383.6	0.05
Slavonski Brod	881	340.5	0.05
Vukovar	899	333.7	1
Zagreb	1133	264.7	135
Rijeka I	1133	264.7	20
Split I	1133	264.7	50
Zadar	1133	264.7	2
Osijek	1133	264.7	2
Dubrovnik	1133	264.7	2
Bjelovar	1214	247.1	0.05
Nasice	1313	228.5	0.05
Djurdjevac	1358	220.9	0.05
Molve	1363	220.1	0.05
Hlebine	1394	215.2	0.05
Gospic	1412	212.4	20
Osijek	1412	212.4	2
Novigrad Podr.	1421	211.2	0.025
Dakovo	1484	202.2	0.05
Knin	1484	202.2	0.05
Porec	1484	202.2	0.05
Pula	1484	202.2	2
Varazdin	1484	202.2	0.05
Krizevci	1484	202.2	0.05
Virje & Virovitica	1484	202.2	0.05
Dubrovnik	1493	200.9	2
Zagreb II	1493	200.9	7
Buje	1493	200.9	2
Ludbreg	1493	200.9	0.05
Otocac	1493	200.9	0.05
Petrinja	1520	197.4	0.05
Vrbovsko	1570	191.1	0.05
Karlovac	1594	188.2	0.05
Krapina-Zab	1594	188.2	0.05
Rovinj	1594	188.2	0.05
Vinkovci	1594	188.2	0.05
Ogulin	1594	188.2	0.05
Zabok	1594	188.2	0.05

SLOVENIA	kHz	m	kW
Ljubljana I	917	327.1	135
Koper	1169	256.6	20
Radlje	1241	241.7	0.05
Maribor	1412	212.4	20
Ljubljana II	1484	202.2	2
Celje	1484	202.2	2
Crnomelj	1484	202.2	0.05
Trzic	1484	202.2	0.2
S. Jelsah	1484	202.2	0.15
Bovec	1484	202.2	0.05
Tolmin	1484	202.2	0.05
Murska Sobata	1493	200.9	2
Slovenj Gradec	1502	199.7	0.05
Ptuj	1511	198.5	0.05
Brezice	1562	192.1	0.05
Kobarid	1594	188	0.05
Jesenice	1594	188	0.2
Trbovlje	1594	188	0.05

BOSNIA/HERZEGOVINA	kHz	m	kW
Sarajevo	611	491	100
Brcko	1331	225.4	0.05
Gradacac	1430	209.8	0.05
Tuzla	1484	202.2	2
Mostar	1484	202.2	2
Jajce	1484	202.2	0.2
Bihac & Modrica	1484	202.2	0.05
Banja Luka	1484	202.2	2

MACEDONIA	kHz	m	kW
Skopje	809	371	135
Prilep I	1464	204.9	0.05
Delcevo	1484	202.2	0.05
Bitola	1484	202.2	2
Debar	1484	202.2	0.05
Gevgelija	1484	202.2	0.05
Gostivar	1484	202.2	2
Kicevo	1484	202.2	0.05
Kocani	1484	202.2	0.15
Ohrid	1484	202.2	2
Prilep II	1484	202.2	0.05
Resen	1484	202.2	0.15
Strumica	1484	202.2	0.05
Skopje II	1484	202.2	0.4
Struga	1484	202.2	0.025
Berovo & Negotino	1484	202.2	0.05
Titov Veles	1484	202.2	0.5
Radovis	1484	202.2	0.05
Kavadarci	1495	200.7	0.02
Kumanovo	1500	200.0	0.2
Stip	1552	193.3	0.2

MONTENEGRO	kHz	m	kW
Titograd	881	341	100

SHORT WAVES: Beograd (G.C: 20.09E/44.34N)

kHz	m	kW	kHz	m	kW	kHz	m	kW
6100	49.18	100	9505	31.56	50	11735	25.56	100
6150	48.78	10	9620	31.18	50/100	15240	19.69	100
7200	41.67	10						

FM:

SERBIA	MHz	kW
Novi Sad II	87.7	4
Belgrade I	88.2	0.5
Ovcar I	88.1	4
Subotica II	88.9	1
Istrebac II	89.3	50
Orni Vrh I	89.7	4
Ovcar II	90.1	4
Novi Sad I	90.5	50
Kopaonik II	90.9	1
Goles II	92.5	30
Subotica I	92.5	4
Tupizinica I	92.5	4
Valjevo	92.5	0.03
Cacak	92.8	0.03
Pristina	93.7	0.25
Crvni Cot I	94.5	40
Avala I	95.3	40
Kopaonik	93.7	4
Tupizinica II	96.1	4
Crvni Cot II	96.5	40
Istrebac I	96.9	50
Avala II	97.7	4
Nis	98.1	0.5
Belgrade II	98.5	0.25
Crni Vrh II	99.3	4
Goles I	99.7	4

CROATIA	MHz	kW
Pula I	88.1	5
Zagreb II	88.1	0.06
Stipanov Gric I	89.7	2.5
Labistica I	91.3	5
Sljeme I	92.1	50
Celévac I	95.1	50
Labistica II	96.1	5
Ucka II	96.9	50
Psuni I	97.3	50
Celévac II	98.1	50
Sljeme II	98.5	50
Ucka I	99.3	50
Zagreb I	99.3	0.09
Psunj II	99.7	5

SLOVENIA	MHz	kW
Pohorje I	88.5	0.375
Kopertown	89.3	0.375
Plesivec I	90.1	0.375
Krvavec II	91.7	2.5
Plesivec II	92.5	0.375
Nanos I	92.9	1.5
Ljubljana II	93.5	0.375
Kum I	94.1	10
Nanos II	95.3	0.375
Stol	96.4	2.5
Ljubljana I	96.5	0.375
Pohorje II	96.9	0.375
Celje	97.0	0.06
Koper-Beli Kriz	97.7	1
Mirna Gora I	97.7	2.5
Krvavec I	98.9	100
Kum II	99.9	4.5

BOSNIA/HERZEGOVINA	MHz	kW
Hum	95.7	3
Sarajevo	96.5	1
Vlasic	97.1	6
Bjelasnica	98.1	1

MACEDONIA	MHz	kW
Popova Sapka	90.5	0.1
Ohrid	92.1	0.12
Crni Vrv	94.1	0.8
Pelister	95.7	0.8
Skopje	98.6	0.6

MONTENEGRO	MHz	kW
Bjelasica	92.1	1
Lovcen	94.9	1
Titograd	96.1	1.2
Titograd	99.9	1.2

HOME SERVICE:

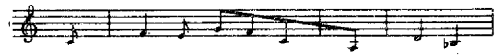
R. Beograd I: W 04.05-00.05 (Sat/Sun/Mon 24 h) — **N:** W 04.03, 04.30, 05.00, 05.30, 06.00, 06.40, 07.05, 07.30, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.00, 19.30, 21.00, 22.00, 23.00, 24.00. Sun 05.03, 05.30, 06.00, 06.30, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.00, 19.30, 22.00, 23.00, 24.00.
R. Beograd II: W 12.00-21.00 (Sat/Sun 07.00-21.00) — **N:** W 12.30, 13.30, 14.30, 16.00, 17.30, 18.30, 19.00, 20.50. Sun 07.30, 08.30, 10.30, 12.30, 13.30, 14.30, 16.30, 18.30, 19.00, 20.50.
R. Beograd III: 21.00-24.00
R. Zagreb I: 04.30-24.00 (Sat 24 h; Sun 04.30-00.10) — **N:** 04.30, 05.00, 06.15, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.30, 22.00, 23.00, 24.00.
R. Zagreb II: 05.00-20.00 — **N:** 04.30, 06.30, 07.30, 08.30, 09.30, 10.30, 11.30, 12.30, 13.30, 15.30, 16.30, 17.30, 18.30 — **R. Zagreb III:** 20.00-23.00.
R. Ljubljana I: 04.30-24.00 — **N:** W 04.30, 05.00, 06.00, 07.00, 08.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.00, 19.30, 22.00, 23.00, 24.00. Sun 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00, 19.30, 22.00, 23.00, 24.00.
R. Ljubljana II: W 14.00-24.00 (Sun 09.30-24.00) — **N:** W 14.00, 15.45, 20.00, 21.00, 24.00. Sun 09.30, 11.30, 13.30, 14.30, 17.30, 20.00, 21.00, 24.00.
R. Sarajevo: W 05.00-00.05 (Sat/Sun/Mon 05.00-01.00) — **N:** 05.00, 06.00, 06.30, 07.30, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.30, 21.00, 22.00, 23.00, 24.00.
R. Skopje I: D 05.00-24.00 — **N:** 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.00, 19.30, 22.00, 23.00, 24.00
R. Skopje II: 12.00-17.20 — **N:** 12.30, 13.30, 14.30, 16.30
R. Titograd: W 05.00-08.00, 12.00-23.00 (Sun 05.00-23.00) — **N:** W 05.00, 06.30, 08.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.30, 21.00, 22.00. Sun 05.00, 06.00, 07.30, 08.00, 10.00, 13.00, 14.00, 15.00, 17.00, 18.00, 19.30, 22.00
R. Novi Sad: 05.00-00.05. **N:** W 05.15, 05.30, 05.45, 06.00, 07.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 21.00, 21.30, 22.00, 22.30, 24.00. Sun 05.15, 05.30, 05.45, 06.00, 07.00, 09.28, 12.00, 15.00, 17.00, 18.00, 19.00, 21.00, 21.30, 22.00, 22.30, 24.00.
R. Novi Sad II: W 13.30-17.30, Sun 08.00-13.00. **N:** W 15.30, 14.30. Sun 10.30, 12.00, 13.00.
R. Pristina: W 05.00-23.05 (Sun 05.30-23.05). **N:** W 05.02, 06.00, 06.30, 07.00, 08.00, 09.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.00, 18.30, 19.30, 21.00, 22.00, 23.00. Sun 06.00, 07.00, 08.00, 10.00, 12.00, 13.00, 14.00, 15.00, 17.00, 18.30, 19.30, 22.00, 23.00.

FOREIGN SERVICE

Albanian	kHz
14.00-14.30	6100, 7200
20.30-21.00(W)	1412
21.30-22.00	881
Arabic	
15.00-15.30	6100, 11735
17.30-18.00	6100, 7200
Bulgarian	
13.00-14.00(Sun)	926
14.30-15.00(W)	926
18.00-18.30	6100, 7200
English	
15.30-16.00	7200, 15240
18.30-19.00	6100, 7200
20.00-20.30	6100, 7200
22.00-22.15	1268

French	kHz
16.00-16.30	6100, 7200
19.30-20.00	6100, 7200
22.15-22.30	1268
German	
16.30-17.00	6100, 7200
20.30-21.00	6100, 7200
Russian	
14.30-15.00	6100, 7200
17.00-17.30	6100, 7200
19.00-19.30	6100, 7200
Spanish	
21.30-22.00	11735, 7200
00.00-00.30	11735, 7200
01.00-01.30	11735, 7200

N: At the beginning of every tr.
ANN: Home Service: "Here is Radiotelevision Beograd, ...Zagreb, ...Ljubljana etc." — "Ovde Radiotelevizija Beograd, ...Zagreb, Ljubljana etc." — Foreign Service: "This is Yugoslavia, R. Belgrade calling" — "Ici la Yugoslavie, Belgrade vous parle". "Hier spricht R. Beograd".
INT-SIG: Home and Foreign Service: The beginning of the "Internationale" (Radio Belgrade).



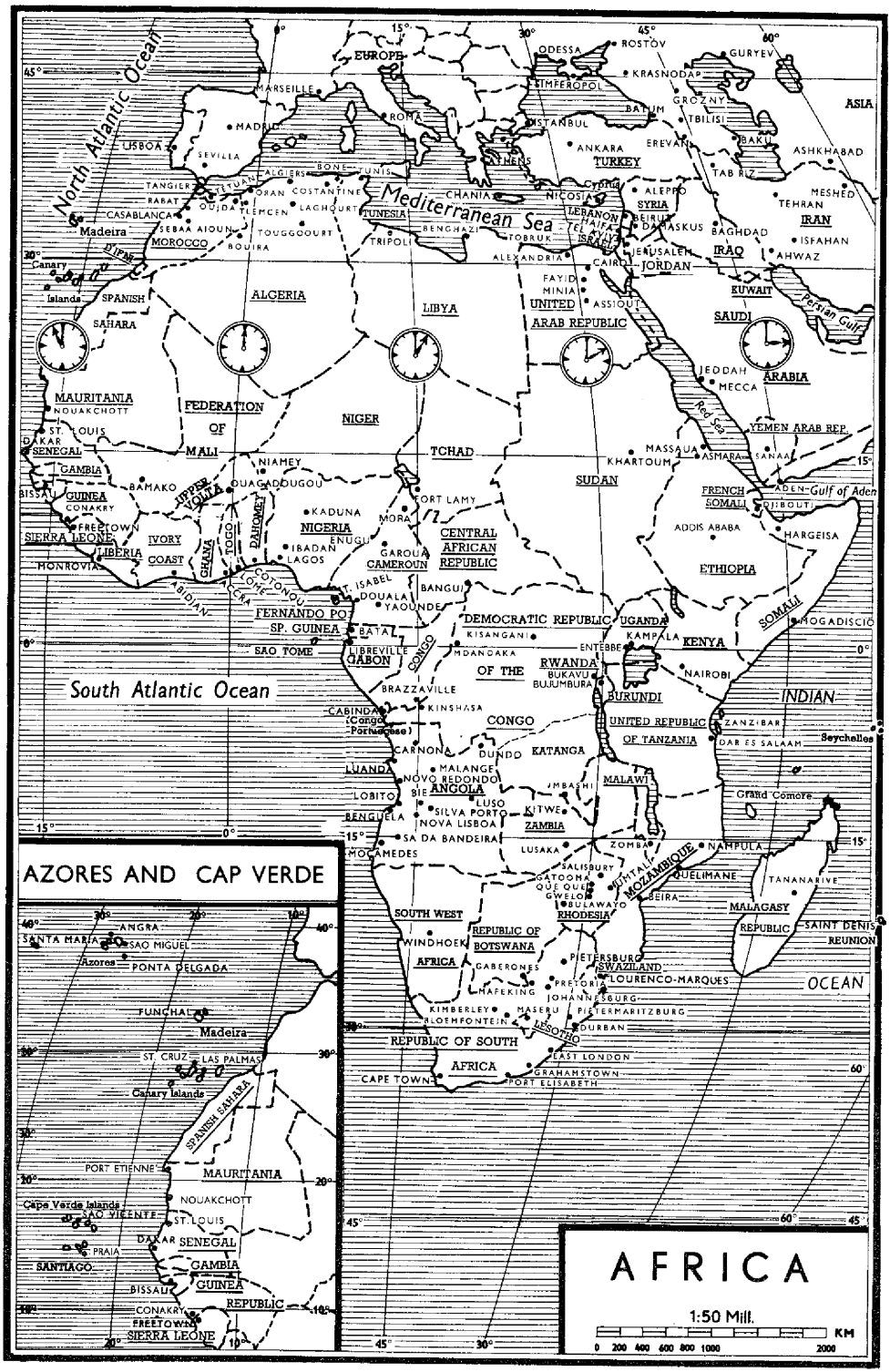
V. by QSL-card. Re. to: Chief Editor of External Broadcasting, 2 Hilendarska, Beograd. Recordings accepted — **ALF:** Din 72,–

AFRICA

AFARS & ISSAS (Territory of)

L.T: GMT + 3 h — **Pr.L:** French, Somali, Afar, Arabic.

OFFICE DE RADIODIFF. TELEVISION FRANÇAISE (ORTF)
ADDR: B.P. 97, Djibouti. **L.P:** Dir: J. Franco. Dir. Tec: L. Sebastien.
STATIONS (G.C: 43.00E/11.30N): all tr's 4kW. 1169kHz 256.6m — 1538kHz 195.0m — 4780kHz 62.76m.
HOME SCE: On 1169kHz: French: W 03.00-04.15, 08.45-10.00, 15.30-20.10; Sun 05.00-10.00, 15.30-20.10. **N:** 03.00, 09.45, 17.00, 20.00.
On 1538/4780kHz: Somali: 04.00-05.00 (Sun 06.30-08.00), 10.00-11.00, 13.00-14.00, 16.00-19.00. **N:** 04.00, 10.00, 13.00, 16.00. **Afar:** 03.00-04.00 (Sun 05.00-06.30), 09.00-10.00, 12.00-13.00, 18.00-20.00. **N:** 03.30, 09.45, 12.00, 18.00. **Arabic:** 05.00-06.00 (Sun 08.00-09.00), 11.00-12.00, 14.00-16.00. **N:** 05.00, 11.00, 15.45.


AFRICA
1:50 Mill.
KM
0 200 400 600 800 1000 2000
AZORES AND CAP VERDE
North Atlantic Ocean
South Atlantic Ocean
Mediterranean Sea
INDIAN OCEAN
EUROPE
ASIA
ALGERIA
LIBYA
UNITED ARAB REPUBLIC
SAUDI ARABIA
IRAN
IRAQ
JORDAN
KUWAIT
Persian Gulf
Red Sea
YEMEN ARAB REP.
ADEN
Gulf of Aden
FRENCH SOMALI
DJIBOUTI
ETHIOPIA
SOMALI
MOGADISCIO
KENYA
UGANDA
SUDAN
CHAD
NIGER
MALI
FEDERATION OF MALI
MAURITANIA
SENEGAL
GAMBIA
GUINEA
SIERRA LEONE
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REUNION
Madeira
Canary Islands
Cape Verde Islands
SPANISH SAHARA
MAURITANIA
SENEGAL
GAMBIA
GUINEA REPUBLIC
SIERRA LEONE
SANTIAGO
Azores
ANGRA
SANTA MARIA
SAO MIGUEL
PONTA DELGADA
FUNCHAL
ST. CRUZ
LAS PALMAS
PORT ETIENNE
NOUAKCHOTT
ST. LOUIS
DAKAR
PRAIA
BISSAU
CONAKRY
FREETOWN
SAO VICENTE
ROSTOV
ODESSA
KRASNODAR
SIMFEROPOL
GROZNY
TBILISI
BATUM
BAKU
ASHKHABAD
TAB RIZ
MESHED
TEHRAN
ISFAHAN
AHWAZ
BAGHDAD
DAMASKUS
BEIRUT
JERUSALEM
TEL AVIV
HAIFA
ALEPPO
SYRIA
LEBANON
ISRAEL
JORDAN
CAIRO
ALEXANDRIA
TOBRUK
BENGHAZI
TRIPOLI
TUNISIA
CHANIA
ATHENS
ISTANBUL
ANKARA
TURKEY
EREVAN
MARSEILLE
ROMA
MADRID
LISBOA
SEVILLA
ALGIERS
BONE
TUNIS
TANGIER
RABAT
OUJDA
ORAN
CONSTANTINE
TLEMCEN
LAGHOUAT
CASABLANCA
SEBAA AIOUN
TOUGGOURT
MOROCCO
BOUIRA
FAYID
MINIA
ASSIOUT
JEDDAH
MECCA
MASSAUA
ASMARA
SANAA
KHARTOUM
ADDIS ABABA
HARGEISA
NAIROBI
KAMPALA
ENTEBBE
KISANGANI
MDANDAKA
BUKAVU
BUJUMBURA
BRAZZAVILLE
KINSHASA
CABINDA (Congo Portuguese)
CARNONA
DUNDO
KATANGA
LUANDA
MALANGE
NOVO REDONDO
LOBITO
BIE
LUSO
SILVA PORTO
NOVA LISBOA
BENGUELA
SA DA BANDEIRA
MOCAMEDES
LUSAKA
ZOMBA
NAMPULA
QUELIMANE
TANANARIVE
BEIRA
SALISBURY
GATOOMA
QUE QUE
GWELO
BULAWAYO
KITWE
NDOLA
UMTALI
WINDHOEK
GABERONES
MAFEKING
PIETERSBURG
PRETORIA
JOHANNESBURG
LOURENCO-MARQUES
KIMBERLEY
BLOEMFONTEIN
MASERU
PIETERMARITZBURG
DURBAN
EAST LONDON
GRAHAMSTOWN
PORT ELISABETH
CAPE TOWN
FERNANDO PO
SP. GUINEA
SAO TOME
LIBREVILLE
BATA
DOUALA
YAOUNDE
ST. ISABEL
BANGUI
GAROUA
MORA
FORT LAMY
KADUNA
ENUGU
IBADAN
LAGOS
ABIDJAN
COTONOU
ACCRA
MONROVIA
FREETOWN
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UPPER VOLTA
OUAGADOUGOU
NIAMEY
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ST. LOUIS
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SAINT DENIS
REUNION
OCEAN

Afars and Issas—Angola

ANN: F: "Ici Djibouti Office de Radiodiff. Télévision Française". Afar: "Ah Djibouti Radio". Arabic: "Houna Djibouti dar el Iza'a el Francia lil Radiowal Television". Somali: "Al kani wa Radio-Djibouti" — **INT-SIG:** Extract from a Somali melody — **V.** by letter and QSL-card. Rp. Recordings accepted.

ALGERIA

L.T: GMT — **Pr.L:** French, Arabic, Kabyl.

RADIODIFFUSION-TELEVISION ALGERIENNE (Gov.)

ADDR: 21, Blv. des Martyrs, Algiers. **Te:** 602300. **Telex:** 91014. **L.P:** Dir. Gen: M. Rezzoug. Secr. Gen: R. Mohammedi. Dir. of Tec. Sces: A. Laghouati. Dir. Netw. I+II: A. Benedougha. Dir. Netw. III+IV: M. Boureghda.

ARABIC NETWORK: 06.00-09.00, 11.00-24.00.

	kHz	m	kW			kHz	m	kW
Constantine I	529	561.1	300	—	Algiers	980	306.1	200
Oran I	548	547.4	300	—	Algiers	11810	25.40	50

N: 06.30, 07.30, 09.00, 10.00, 11.00, 12.00, 13.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 22.00, 23.00, 23.45.

FRENCH NETWORK: Mon-Fri 06.00-08.00, 12.00-14.30, 17.00-24.00; Sat 06.00-08.00, 12.00-24.00; Sun 06.00-24.00.

	kHz	m	kW		kHz	m	kW
Algiers II	890	331.1	200	Algiers	9510[2]	31.55	50
Constantine II	1304	230.1	20	Algiers	11835[2]	25.35	100
Oran II	1304	230.1	20	Algiers	15200[3]	19.74	50
Algiers	6080[1]	49.34	50				

[1]) Night only; [2]) throughout; [3]) daytime only.

N: 07.00, 07.55, 12.00, 13.00, 17.00, 18.00, 19.00, 20.00, 22.00, 23.45.

KABYL NETWORK: W 06.00-08.00, 12.00-22.30; Sun 06.00-22.30.

	kHz	m	kW		kHz	m	kW
Algiers	692	433.5	4	—	9685	30.98	50
Algiers III	1421	211.1	40				

N: 07.00, 07.30, 12.00, 13.00, 17.00, 19.00, 20.00, 22.00.

SUPPLEMENTARY NETWORK (relays French & Arabic netw, local prgr's): 11.00-13.15, 17.00-23.00.

	kHz	m	kW		kHz	m	kW
Touggourt	557	538.6	1	Batna	1016	295.3	1
Bouira	692	431.5	1	Souk Ahras	1079	278.0	1
Tlemcen	746	402.1	1	Laghouat	1570	191.1	4
Setif	854	351.3	0.05	Bougie	1594	188.2	0.6

RELAYS ON SHORTWAVE (G.C: 03.00E/37.00N):

Arabic (to Morocco/Mid East): **On 11810kHz:** Mon, Thurs 06.00-09.00, 11.00-24.00; other days 06.00-24.00.

French (to Europe, directed No/So): **On 6080kHz:** 06.00-08.00 (Sun 09.00), 17.00-24.00; **On 15200kHz:** 12.00-14.30 (Sat/Sun 17.00); **On 9510kHz:** 06.00-08.00, 12.00-14.30, 17.00-24.00 (Sat 06.00-08.00, 12.00-24.00; Sun 06.00-24.00). **On 11835kHz:** Sat 06.00-08.00, 12.00-24.00; Sun 06.00-24.00.

Kabyl (directed East/West) on 9685kHz: 06.30-08.30, 12.00-22.30 (Sun 06.30-22.30).

ANN: F: "Ici Alger Radiodiff. Télévision de la République Algerienne Democratique et populaire". Arabic: "Houna el Djazair Idhaatou el Djamhouriati el Djazariyati el Demaukrati hati oua ch'chaa bi'yati". — **V.** by QSL-card. Re. in French — **ALF:** DA 25, —.

ANGOLA (Portuguese West Africa)

L.T: GMT + 1 h — **Pr.L:** Portuguese.

DIRECÇAO DOS SERVIÇOS DOS CORREIOS, TELEGRAFOS E TELEFONOS, Luanda

L.P: Dir: A. Cardoso de Sousa.

STATIONS: Call CR6 — All st's comm. exc. 4) (Gov.), 14) (Rlg)

Short Waves:

	kHz	m	kW	Name h of tr.
1) RF	3250	92.31	0.25	R. Cl. de Benguela, Cubal: 05.00-08.00, 11.00-13.00, 17.30-21.30
2) RP	3272	91.69	0.25	R. Clube do Cuanza Sul: 11.00-13.00, 16.00-22.00
3) RS	3330	90.09	1	R. Clube do Lobito: 06.00-23.00
4) RZ	3375	89.89	10	R. Angola: 17.40-01.00 (Sat 03.00)
5) RD	3704	80.99	1	R. Cl. do Huambo: 16.00-23.00 (Sun 17.00-21.00)
6) RM	3740	80.21	0.75	R. Cl. de Moçamedes: W 16.30-23.00, Sun 16.00-20.00
7) SG	3970	75.75	1	R. Clube da Huila: W 06.30-13.30, 15.30-23.00; Sun 07.00-21.00
8) RG	4770	62.89	0.5	R. Diamang: W 18.00-19.00, Sun 11.00-12.30
9) R6	4795	62.57	10	R. Comercial de Angola: 16.00-24.00
4) RZ	4780c	62.76	5	R Angola
4) RZ	4820	62.24	100	R. Angola: 05.00-01.00 (Sat 03.00)
2) RY	4840	61.98	2	R. Cl. do Cuanza Sul: 11.00-13.00, 16.00-22.00
10) RU	4850	61.86	1	R. Cl. do Uige: W 06.00-08.00, 11.00-14.00, 17.00-22.00; Sun 08.00-20.00
4) RZ	4860b	61.73	5	R. Angola
11) RN	4870	61.60	1	R. Cl. de Angola: W 06.00-09.00, 11.00-21.30 (Sat 24.00); Sun 07.00-23.00
12) RO	4896	61.27	1	R. Cl. do Bié: W 06.00-07.00, 11.00-13.00, 16.00-22.00; Sun 07.00-19.00
3) RS	4910	61.10	1	R. Cl. do Lobito: 06.00-23.00
13) RE	4935	60.80	1	R. Cl. de Malanje: 06.00-09.00 11.00-14.00, 16.00-22.00
14) RB	4985	60.18	1	R. Ecclesia: 05.00-24.00
6) RM	5015	59.82	1	R. Cl. de Moçamedes: W 06.00-09.00, 11.00-13.30, 16.30-23.00; Sun 08.00-20.00
7) RH	5024	59.71	1	R. Cl. da Huila: W 06.30-13.30, 15.30-23.00; Sun 07.00-23.00
15) RW	5033	59.59	1	R. Cl. de Cabinda: W 06.00-08.00, 11.30-13.30, 17.30-21.30; Sun 08.00-14.00, 16.00-20.00
1) RF	5042	59.50	1	R. Cl. de Benguela: W 05.45-07.00, 10.00-13.30, 15.30-23.00; Sun 07.00-21.00
5) RD	5060	59.29	1	R. Cl. do Huambo: 05.00-13.30, 16.00-21.30 (Sun 08.00-11.00, 13.00-19.00)
16) RV	5192	57.58	1	R. Cl. do Moxico: W 05.30-09.00, 11.00-14.00, 17.00-22.00; Sun 08.00-20.00
4) RZ	6025	49.79	10	R. Angola: 05.00-09.55, 17.40-01.00 (Sat 03.00).
1) RF	6150	48.78	1	R. Cl. de Benguela: W 05.45-07.00, 10.00-13.30; Sun 07.00-17.00
17) AZ	6175*	48.58	100	A Voz de Angola: 04.00-22.00
13) RE	7115	42.15	0.5	R. Cl. de Malanje: 06.00-09.00, 11.00-14.00 (Sat/Sun 16.00)
5) RD	7125	42.11	1	R. Cl. do Huambo: 05.30-13.30
11) RA	7140	42.02	0.5	R. Cl. de Angola: W 06.00-09.00, 11.00-21.30 (Sat 24.00); Sun 07.00-23.00
9) R6	7150	49.96	10	R. Comercial de Angola: 06.00-09.00, 11.00-13.00 (Sun 07.00-16.00), 16.00-24.00
12) RO	7203	41.65	1	R. Cl. do Bié: W 06.00-07.00, 11.00-13.00, 16.00-22.00; Sun 07.00-19.00
6) RM	7230	41.49	0.75	R. Cl. de Moçamedes: W 06.00-09.00, 11.00-13.30; Sun 08.00-16.00
4) RZ	7245	41.41	100	R. Angola: 05.00-17.40
6) RM	9515	31.53	1	R. Cl. de Moçamedes: W 06.00-09.00, 11.00-13.30; Sun 08.00-16.00
4) RZ	9535	31.46	100	R. Angola: 09.55-17.40
8) RI	9615	33.20	1	R. Diamang: as 4770kHz
11) RL	9630	31.15	1	R. Cl. de Angola: W 06.00-09.00, 11.00-21.30 (Sat 24.00); Sun 07.00-23.00
17) RZ	9660	31.06	10	A Voz de Angola: 04.00-22.00
8) RR	11685	25.67	1	R. Diamang: as 4770kHz
4) RZ	11955	25.09	100	R. Angola

*) reported on 5960kHz.

Medium Waves: ° = Short Wave

	Call	kHz	m	kW		Call	kHz	m	kW
4)	—	°701	428.0	5	7)	RA	°1313	228.0	1
11)	—	°830	361.4	1	6)	RM	°1331	225.4	1
10)	RU	°908	330.4	1	15)	RW	°1340	224.0	1
14)	RB	°1010	287.0	1	17)	RZ	°1367	219.5	10
4)	RZ	°1088	275.0	100	12)		°1385	217.0	1
4)	—	1115a	269.1	5	3)	RS	°1403	213.8	1
5)	RD	°1160	259.0	1	9)	—	°1405	213.5	1
13)	RE	°1205	249.0	1	2)	RP	1484	202.2	1
16)	—	°1214	247.0	1	1)	RF	°1529	196.2	1
4)	—	1241b	241.7	5	18)	—	°1547	193.9	1
4)	—	1295c	231.7	5	5)	RD	°1594	188.2	1

a) Emissor Reg. de S. Salvador; b) Emissor Reg. de Saurius; c) Emissor Reg. de Menongue.

FM: 1) 99.5MHz 0.05kW — 2) 93.8MHz 1kW — 3) 94.4MHz 0.01kW — 4) 93.53MHz 0.275kW — 5) 97.1MHz 0.2kW, 105.4MHz 0.2kW — 9) 90.5MHz — 11) 90.7MHz 0.5kW — 14) 95.6MHz 0.05kW.

Short Waves:

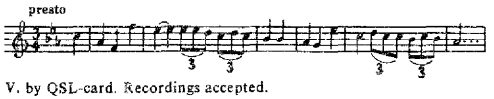
1) C.P. 19, Benguela. **Te:** 2117. **Cable:** Radio Clube. **L.P:** Pres: F. R. Barbosa. Dir. Tec: A. Pereira de Sousa. **D.Prgr: N:** 06.30 (W), 09.00 (Sun), 11.30 (W), 12.30 (Sun), 18.30, 22.45 (W). **Wrp:** after N. 11.30, 18.30 MW: W 05.45-13.30, 15.30-23.00, Sun 07.00-21.00 on 1529kHz. Emissor Reg. do Cubal (3250kHz). **Ann:** "R. Clube de Benguela, Angola, Provincia Portuguesa de Africa". **Int-Sig:** Solo on Kissange, a native instrument. **V.** by QSL-card or letter. Recordings accepted.

2) C.P. 10, Novo Redondo. **L.P:** Pres: O. S. de Freitas Viegas. Dir. Tec: R. P. de Almeida. **Ann:** "Aqui Portugal, transmite de Novo Redondo, Angola, R. Clube do Cuanza Sul". **Int-Sig:** Guitar. **V.** by QSL-card.

3) C.P. 56, Lobito. **Te:** 2262. **L.P:** Pres: Dr. C. Krus. Dir. Tec: A. Fernandes. Dir. Prgr: J. E. Monteiro. **D.Prgr: N:** 06.05, 10.15, 12.00, 15.00, 19.00, 21.30, 22.15, 22.40. **Ann:** "Angola, Portugal transmite o R. Clube do Lobito". **Int-Sig:** Gong. **V.** by QSL-card or letter. Re. in E, F, P, Sp.

4) Emissora Official, C.P. 1329, Luanda. **Te:** 80499. **L.P:** Dir. Gen: F. Monteiro Flor. Dir. Tec: J. C. Proença. Dir. of Broadc: J. F. Malho-Ilharo. **D.Prgr:** 05.00-01.00 (Sat 03.00). **N:** 06.10, 07.00, 07.30, 08.00, 08.30, 09.00, 10.00, 11.00, 12.00, 13.00, 13.30, 14.00, 14.30, 15.00, 16.00, 17.00, 19.00, 20.00, 20.30, 21.00, 22.00, 24.00, 00.30. **Classical cultural Prgr:** 19.30-24.00 on 1088kHz/95.3MHz. **English:** 17.00-17.40 on 7245/9535kHz. **French:** 10.12-11.00 on 9535kHz, 11.12-12.00 (repeat) on 4820kHz. **Ann:** "Aqui Portugal, Emissora Oficial da Provincia de Angola, Luanda". E: "This is Luanda calling from the studios of the National R. station of Angola, Portugal". F: "Le Portugal en Afrique vous parle, la radiodiff. officielle de la Province d'Angola, Luanda". **Int-Sig:** Kizanzi (first movements of Nat. Anthem). **V.** by QSL-card. Re. appreciated.

5) C.P. 125, Nova Lisboa. **Te:** 2241. **Cable:** Radihuambo. **L.P:** Pres: M. D. Nogueira. Vice Pres: R. F. da Silva. Secr: A. S. Campelos. Dir. Prgr: A. Caratão. **D.Prgr: Umbundo:** 16.00-19.00. MW:05.50-13.30, 16.00-23.00 on 1160/1594kHz. **Ann:** P: "Aqui Angola, Portugal, de Nova Lisboa transmite o R. Clube do Huambo, Uma Voz portuguesa em Africa" (This is Angola, Portugal, R. Clube of Huambo, Nova Lisboa, a Portuguese voice in Africa). Umbundo: "Kulo ko Angola Portugal. Ylo ó R. Clube yo Huambo, ko Nova Lisboa, Ocipama cetu ca Cruzeiro do Sul". **Int-Sig:** Birdchirping. V. by QSL-card.
6) C.P. 174, Moçamedes. **Te:** 200. **Cable:** Radioclube. **L.P:** Pres: E. P. Silva. St. Mgr: J. M. Frota. **Ann:** "R. Clube de Moçâmedes, em Angola, Provincia Portuguesa de Africa". V. by QSL-card. Reported using 1331 & 5015kHz only.
7) C.P. 111, Sá da Bandeira. **Te:** 92. **Cable:** Radioclube. **L.P:** Pres: Dr. E. de Figueirede Fernandes. Dir. Tec: J. H. Guimares. **D.Prgr: N:** 07.30, 12.00, 19.30. **Ann:** "R. Clube de Huila em Sá da Bandeira Angola, Provincia de Portugal em Africa". **Int-Sig:** First movements from "Bailinho da Madeira". V. by QSL-card. Rp.
8) C.P. 1247, Dundo, Lunda. **Cable:** Diamang, Portugalia. **L.P:** Dir. Gen: J. A. Bexiga. Dir. Tec: L. S. Matos. R. Diamang is a private st. which aims only to entertain the Diamang employees who work in the mining fields of Lunda. The Prgr's are varied, consist only of classic, light and native music. **Ann:** "Aqui Dundo, Angola, Provincia Portuguesa de Africa R. Diamang, Estação Emissora da Compânhia de Diamantes de Angola". **Int-Sig:** At opening "Marimba" solo (native instruments of percussion similar to the xylophone). V. by QSL-card. Re. in P, E or F.
9) C.P. 269, Sá da Bandeira. **Te:** 115. **Cable:** Radial. **L.P:** Dir. Gen: M. Queiros. Dir. Tec: M. da Cunha. Mgr. Prod: H. da Fonseca. **D.Prgr: N:** 06.00 (W), 11.00, 18.30 — MW/FM: W 06.00-13.00, 16.00-24.00; Sun 08.00-24.00 on 1405kHz/90.5MHz (English, Portuguese, Afrikaans & French at 23.00-24.00). **Ann:** "R. Comercial de Angola a Voz de Amizade, com os seus estudios em Sá da Bandeira". **Int-Sig:** Trumpets. Drums. V. by letter. Obs: R. Comercial de Angola is partly relayed by "A Voz de Luanda".
10) C.P. 140, Carmona. **Te:** 26. **Cable:** Radioclube. **L.P:** Pres: J. J. Nogueira. Vice Pres: J. de Sousa Mendez da Rocha Diniz. Secr: J. A. Gonçalves Nabais. **D.Prgr: N:** 06.15, 06.30, 11.30, 12.00, 17.15, 19.00, 21.00. **Ann:** "R. Clube do Uige em Carmona, Provincia Portuguesa d'Africa". **Int-Sig:** Passarinhos followed by a march "Angola é Nossa".
11) C.P. 229, Luanda. **Te:** 23448. **Cable:** Radangola. **L.P:** Pres: Com: Albuquerque e Castro. Dir. of Prod: A. M. da Costa. Tec. Mgr: B. Victor. Prgr. Mgr: A dos Santos e Sousa. **D.Prgr:** Mw: 06.00 (Sun 07.00)-23.00 (Sat 24.00). FM: 18.00-21.30 (Sun 07.00-23.00). **N:** 06.30, 07.30, 08.30, 09.30, 10.30, 11.30, 12.30, 13.30, 14.30, 15.30, 16.30, 17.30, 18.30, 19.30, 22.30. **Ann:** "Angola, Provincia Portuguesa de Africa, de Luanda emite R. Clube de Angola, a vossa Estação...". V. by QSL-card.
12) C.P. 33, Silva Porto. **L.P:** Dir. Gen: J. P. de Andrade. Dir. Prgr's: F. Texira. Dir. Tec: R. Maurice. **D.Prgr: N:** 06.20 (W), 11.20, 18.20. **Ann:** "R. Clube do Bié em Silva Porto, Angola, Provincia de Portugal em Africa". **Int-Sig:** Gong. V. by QSL-card.
13) C.P. 83, Malanje. **Te:** 30. **L.P:** Pres: J. B. P. do Amaral. Dir. Prgr: J. de Sousa Berenguel. Dir. Tec: J. C. A. da Silva. **D.Prgr: N:** 06.30, 11.50, 19.00, 22.00 (Sat). MW: 06.00-09.00, 11.00-14.00 (Sat/Sun 16.00), 16.00-22.00 on 1205kHz. **Ann:** "Aqui Portugal transmite o R. Clube de Malanje em Angola, Provincia de Africa". **Int-Sig:** Some movements from "Reida Festa" on Guitar. V. by QSL-card.
14) C.P. 156, Luanda. **Te:** 2302. **Cable:** "Ecclécsia". **L.P:** Dir. Gen: J. M. Pereira. Dir. Tec: J. F. Dimiz da Gama. **D.Prgr: N:** 06.00, 11.45, 18.15, 21.30, 23.00, 23.45. **Ann:** "Aqui Portugal R. Ecclésia, Emissora Catolica da Angola". **Int-Sig:** Music from "A Treze de Maio". V. by QSL-card.
15) C.P. 116, Cabinda. **Te:** 116. **L.P:** Pres: Dr. J. Delgado. Dir. Tec: A. T. Monis. **D.Prgr: N:** 06.30, 12.00, 17.30 (Sun), 19.00 (W). **Ann:** "Aqui Cabinda, Angola, Provincia Portuguesa d'Africa transmite o R. Clube de Cabinda". **Int-Sig:** Gong. V. by QSL-card or letter.
16) C.P.74, Luso. **Cable:** Radioclube. **L.P:** Pres: J. P. d'Albuquerque. Vice Pres: O. G. Pernes. Secr: E. M. Gonçalves. **D.Prgr: N:** 07.00, 08.00, 11.05, 12.00, 13.00, 18.00, 19.00, 20.00, 21.00. **Ann:** "R. Clube do Moxico, em Luso, Angola, Provincia Portuguesa em Africa". **Int-Sig:** Gong. V. by letter.
17) C.P.3159, Luanda. **Te:** 26142. **Cable:** Vozango. **L.P:** Dir. Gen: M. H. de Carvalho. Dir. Tec: C. A. Felicio. Dir. Prgrs: A. Mateus. L. Tavares. **Ann:** "Esta e A Voz de Angola, Emissora de todos para todos os Portugueses, A Voz de Angola, A Voz da Cordealidade"
Int- Sig:



V. by QSL-card. Recordings accepted.

Medium Waves:
18) **A Voz de Lusnda**, C.P. 6543. **Te:** 2907. **L.P:** Dir. Gen: C. Moutinho. Dir. Tec: M. Santos. **D.Prgr:** 05.15-01.00. **Ann:** "Aqui Portugal, da Cidade Capital de Angola transmite "A Voz de Luanda". V. by letter.

ASCENSION ISLAND (British)

L.T: GMT — Pr.L: English.

VOLCANO RADIO (Priv.)
Operated by members of RCA and Pan-American Airways — **ADDR:** Volcano Radio, Ascension Island — **L.P:** Eng-in-charge: P. K. Reid Jr. **STATION:** 1600kHz 187.5m 1kW: 24 h in English.
V. by letter. Re. to Box 4187, Patrick Air Force Base, Fla. 32925, U.S.A.

WORLD PUBLICATIONS

LINDORFSALLE 1, HELLERUP, DENMARK

WORLD RADIO BULLETIN

will each fortnight publish the latest news from stations and expert-monitors all over the world and in this way keep you informed about new frequencies, new stations, program details of interest and consequently give you corrections to the World Radio TV Handbook and its Summer-Supplement. The World Radio Bulletin contains 8 pages beautifully printed and often contains illustrations.

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Ascension Island — Canary Islands

RADIO ASCENSION (BBC operated)
ADDR: ZR. Ascension, Ascension Island.
STATION: ZD8RA 1448kHz 0.2kW — **D.Prgr's in English:** 24 h (relay of the BBC World Service exc. a short bulletin of local news).

BBC ATLANTIC RELAY
4 × 250kW tr's for relays of BBC-World Sce, as well as French, Hausa & English Sce's to Africa, and Latin American Sce. (Portuguese & Spanish).

kHz	m	kHz	m	kHz	m	kHz	m
7105	42.22	11820	25.38	15180	19.76	15435	19.44
9510	31.55	11860	25.30	15235	19.69	17740	16.91
9580	31.32	11865	25.28	15260	19.66		
9600	31.25	15105	19.86	15400	19.48		

Full details of tr's are included in the BBC schedule under Great Britain.

BOTSWANA (Rep.)

L.T: GMT + 2 h — **Pr.L:** English, Setswana.

RADIO BOTSWANA (Gov.)
ADDR: P.O. Box 52, Gaberones. **Te:** 366. **Cable:** Broadcasts.
L.P: Officer in Charge: E. B. Egner. Chief Eng: A. Davis.
STATIONS: mw: 2kW; sw's = 10kW; FM: 90.7MHz 0.25kW.

kHz	m	kHz	m	kHz	m
971	309.0	4836	62.03	7295	41.12
3356	89.40	5965	50.29	9590	31.28

HOME SCE. in English, Setswana: 04.00-05.30(W), 15.30-19.00 (Sat 20.00) on 971/3356/4836kHz + FM; Thurs/Fri/Sat 13.20-14.00 (for Women) on 971/5965/9590kHz + FM;
Schools Broadcasts: Mon/Wed/Fri 07.45-10.15, 12.15-13.15 on 971/5965/9590kHz — **N. in English:** 04.30(W), 05.00(BBC), 16.00(BBC)*, 16.15 (W), 18.00 (BBC). * = exc. Sat. **N. in Setswana:** 04.40(W), 16.30 (W)
ANN: "This is R. Botswana broadc. from Gaberones" — **INT-SIG:** Cow Bells. Nat. Anthem at opening and closing — **V.** by QSL-card — **PUB:** Prgr. sheet on request — **F.PL:** Extension of broadc. times to 04.00-21.00 (daily); 100kW sw-tr at Gaberones for sponsored prgr's in English & Setswana — **ALF:** R2.50.

BURUNDI (Rep.)

L.T: GMT + 2 h — **Pr.L:** Kirundi, Swahili, French.

LA VOIX DE LA REVOLUTION (Gov.)
ADDR: B.P.1900, Bujumbura. **Te:** 2236. **Cable:** Radiodiffusion — **L.P:** Dir: R. Minani. Dir. Prgr's: J. Baribwegure.
STATIONS (G.C: 29.21E/03.23S):
1168kHz 256.8m 1kW — 3295kHz 91.05m 10kW — 6140kHz 48.86m 10kW.
HOME SCE. in French, Kirundi, Swahili: W 04.00-06.00, 10.00-13.00, 15.30-21.00. Sun 04.00-12.00, 14.30-21.00.
N. in French: 04.15, 10.45, 12.20, 18.00, 20.50. **N. in Kirundi:** 04.30, 11.00, 12.30, 17.00. **N. in Swahili:** 04.45, 11.15, 12.40, 17.30.
ANN: F: "Ici Bujumbura, la Voix de la Révolution émettant dans les bandes 49m et 257m, soit 6140 et 1168kHz" — **INT-SIG:** A Rundi (umuduli) vocal bow: This is an ordinary bow that is stretched over the tendon of an ox, fitted with a calabash bowl instead of a resonance box. This instrument produces a monotonous rhythmical tone consisting of two characteristic sounds — **V.** by QSL-card. Recordings accepted.

RADIO CORDAC (Missionary Broadc. St)
ADDR: B.P.1140, Bujumbura. **Te:** 2503. **Cable:** Cordac — **L.P:** St. Mgr: J. E. Morris. Dir. of Inf: W. Makokwe. Dir. Tec: J. Morris.
STATIONS: 9UZ23 1400kHz 2x4m 0.25kW — 9UZ22 3985kHz 75.28m 0.5kW — 9UZ24 4895kHz 61.29m 2.5kW
HOME SCE: 03.30-05.30 (Sun 07.30), 09.30-11.00, 16.30-19.15 (rlg's and musical prgr's) — **English:** 03.30-03.45, 05.15-05.30, 06.45-07.30 (Sun), 09.30-10.00, 16.30-17.30 — **French:** 05.00-05.15, 06.00-06.45 (Sun), 10.00-11.00, 18.45-19.15 (Mon & Fri 18.30-18.45). Other times in Kirundi, Swahili.
ANN: E: "This is R. Cordac Bujumbura, Burundi, the Central African Broadc. Co. Incorporated" — **INT-SIG:** "Come Ye Thankful People Come" played on Carillon — **V.** by QSL-card. Recordings accepted. Rp — **PUB:** "Skywaves" bi-monthly in English.

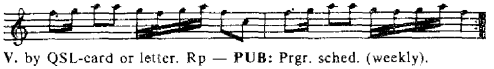
CAMEROON (Federal Republic of)

L.T: GMT + 1 h — **Pr.L:** French, English, Vernaculars.

RADIODIFFUSION DU CAMEROUN (Gov.)
ADDR: B.P. 281, Yaoundé. **Te:** 4635. **Cable:** Radio Cameroun — **L.P:** Federal Dir: D. Amiot-Priso. Dir. Tec: M. Kamden. Dir. of Prgrs & N: J. Moudiki.

RADIO YAOUNDE (Nat. st.)
ADDR: B.P. 281, Yaoundé. **Te:** 4635. **Cable:** Radio Yaoundé — **L.P:** Dir. French Sce: J. Atangana. Dir. English Sce: D. Endeley. Dir. Tec: G. Mbape-Mandengue. D. Fotso.
STATIONS: mw 1kW, sw 4/30kW (G.C: 11.32E/03.51N):
1286kHz 233m — 4972.5kHz 60.33m — 6040kHz 49.67m.
HOME SCE: 04.30-06.55 on 1286/4972.5kHz, 07.00-16.55 on 1286/6040kHz 16.55-23.00 on 1286/4972.5kHz.
D exc. Sat: French 05.00-05.30, 06.00-07.00 (Thurs 07.30), 11.00-13.00, 16.00-17.30, 18.45-22.30. **English:** 05.30-06.00, 13.00-14.30, 17.30-18.45. **Ewondo:** 04.30-05.00.
Sat: French: 05.00-05.30; 06.00-08.05, 11.00-13.30, 14.45-18.00, 18.45-23.00. **English:** 05.30-06.00, 08.05-09.00, 13.30-13.45, 18.00-18.45.
ANN: "Ici Yaoundé, Radiodiff. de la République Fédérale du Cameroun, Poste National". E: "This is Yaoundé the Nat. Broadc. System of the Federal Rep. of Cameroon" — **INT-SIG:** Local music on balafon — **V.** by QSL-card or letter. Rp. Re. in English, French.

RADIO DOUALA (Gov.)
ADDR: B.P. 986, Douala. **Te:** 4575. **Cable:** Radio Douala — **L.P:** St. Dir: Jean-Louis Bitchoka. Dir. Tec: J. Mbiangue. Dir. Prgr: A. Ngangue.
STATION (G.C: 09.41E/04.04N): 1106kHz 271m 5kW.
HOME SCE. in French, English, Vernaculars: French: Mon-Fri 05.00-05.30, 06.00-07.00, 11.00-13.30, 17.45-18.30, 18.45-22.00; Sat 05.00-05.45, 06.00-07.00, 11.00-14.00, 14.15-18.30, 18.45-23.00; Sun 05.00-18.30, 18.45-22.00. **N. in English:** 05.45-06.00 (W), 14.00-14.15 (Sat only), 18.30-18.45 (D). **Vernaculars:** Mon-Fri 05.05-05.45, 17.00-17.45.
ANN: F: "Ici Douala, station regionale de la Radiodiff. du Cameroun"
INT-SIG: At opening and close down and 11.15 and 17.00: Hymn of Cameroon: "O Cameroun berceau de nos ancetrês" fanfare.



V. by QSL-card or letter. Rp — **PUB:** Prgr. sched. (weekly).

RADIO GAROUA (Gov.)
ADDR: B.P. 103, Garoua. **Te:** 012 — **L.P:** Dir: B. Malgana. Dir. Tec: J. Melongo. A. Mva. Mva Dir. Prgr's & N: L. Locca.
STATIONS: mw 1kW, sw 4/30kW (G.C: 12.35E/09.18N):
1348kHz 222.0m — 5010kHz 59.88m — 7240kHz 41.44m.
HOME SCE: W 11.15-13.15 (Sat 14.00), 17.00-20.00, 20.30-22.00. Sun 06.45-14.00, 17.00-20.00, 20.30-22.00. **French:** W 11.15-12.00 (Sat 12.30), 17.00-19.30. Sun 06.45-12.30, 17.00-19.30 — **Foulfouldé:** 12.15-13.15 (Sat/Sun 12.30-14.00), 19.30-20.00 — **Hausa:** 20.30-22.00.
ANN: "Ici Garoua Radiodiff. de la République Fédérale de Cameroun"
INT-SIG: Flute & Tam-tam — **V.** by QSL-card Rp.

RADIO BUEA (Gov.)
ADDR: Buea. **Te:** 625 — **L.P:** Dir: C. Ndikintum. Dir. Tec: A. Ayongo, G. Nitcheu.
STATIONS (G.C: 09.14E/04.09N):
3970kHz 75.57m 8kW — 6005kHz 49.96m 8kW.
HOME SCE. in English and French: 05.00-07.30 on 3970kHz, 11.00-14.30 (Sat 17.00) on 6005kHz, 16.00 (Sat 17.00)-21.30 (Sat 22.00) on 3970kHz; Sun 05.00-07.00 on 3970kHz; 07.00-17.00 on 6005kHz; 17.00-22.00 on 3970kHz.
N. in English: 05.15 (W), *05.45 (W), *06.00 (Sun), 09.15 (Sun), *14.00, 14.25, 17.00, *18.30, 21.25 (W), 21.55 (Sun) — *) Nat & World news relayed from Yaoundé.
N. in French: 06.15 (W), 07.00 (Sun), 12.00 (Sat 12.15), 19.00, 19.30 (Reg. news W only; All news relayed from Yaoundé exc. Reg. news) —
ANN: E: "This is R. Buéa of the Federal Republic of Cameroon Broadcasting System transmitting from Buéa". F: "Ici R. Diff. de la République Fédérale du Cameroun émettant de Buéa".

CANARY ISLANDS (Spanish)

L.T: GMT — **Pr.L:** Spanish.

RADIO NACIONAL DE ESPAÑA (Centro Emisor de Atlantico)
ADDR: Valentin Sanz 4, Pisos 5° y 6°, Sta. Cruz de Tenerife. **Te:** 244187,
L.P: Dir: J. de Rojas Mora.
STATIONS: mw 100kW, sw 50kW.

kHz	m	kW	kHz	m	kW	kHz	m	kW
620	483.9	100	11800	25.42	50	15360	19.53	50

D.Prgr's: On 620kHz: 06.45-01.00. On 90MHz: 13.00-16.00, 18.00-23.00. **N:** 07.00, 08.00, 09.00, 10.00, 11.00, 13.30, 15.00, 16.00, 17.00, 18.00, 21.00, 23.00, 24.00.
On 11800/15360kHz: 20.00-04.00 (relay Madrid for Latin America)
ANN: "R. Nacional de España en Canaris, Centro Emisor del Atlántico" — **INT-SIG:** Marcha de "La Generala" — **V.** by QSL-card or letter.

LA VOZ DE LA ISLA DE LA PALMA
ADDR: Emisora Sindical, Santa Cruz de la Palma. **Te:** 311549. **Cable:** Voz Isla Palma — **L.P:** St. Dir: F. Ayudarte Rodriguez. Dir. Prgr's: G. Gomez F. Dir. Tec: A. Herrera P.
STATION: ECS16 1385kHz 216.6m 0.5kW — **FM:** 89.15MHz.
HOME SCE. in Spanish: 08.00-23.00. **N:** 09.10, 12.10, 13.30*, 14.15, 21.00* (* = rel. R.N.E.) — **ANN:** "La Voz de la Isla de la Palma Emisora Sindical, Santa Cruz de la Palma" — **INT-SIG:** "La Orgia Dorada" (Military March) — **V.** by letter. Recordings accepted.

RADIO ATLANTICO (Comm.)
ADDR: Ca. General Franco 50, Las Palmas. **Te:** 221083. **L.P:** Dir. A. Gutierrez P.
STATIONS: 1097kHz 273m 20kW — **FM:** 88.7MHz 1kW.
HOME SCE. in Spanish: D 06.55-01.00. **N:** 07.30, 08.00, 08.45, 12.00, 13.30, 14.00, 18.00, 20.00, 21.00, 24.00 (relay R. Nacional exc. 08.45, 14.00). **Prgr. in Swedish/English** (for Tourists): D 09.00, 19.00 (Producer Xavier Palin) — **ANN:** Sp: "Transmite R. Atlantico, E.C.S. no 4, Emisora Sindical de las Palmas de Gran, Canaria, Islas Canarias" —
INT-SIG: Canary guitar chords **V.** by QSL-card or letter. Recordings accepted.

RADIO LAS PALMAS (Comm.)
ADDR: Calle Triana 134, Dpdo, Las Palmas de Gran Canaria. Te: 220351.
HOME SCE: EAJ50 953kHz 314.6m 10kW: 07.00-01.00. **N:** 08.00, 08.30, 09.30, 13.30, 14.30, 21.00, 21.15 (local).
ANN: "Transmite EAJ50 R. Las Palmas" — **INT-SIG:** Pasodoble "Islas Canarias" — **V.** by QSL-card. Recordings accepted.

RADIO CLUB TENERIFE (Cult.)
ADDR: Suárez Guerra 33, Santa Cruz de Tenerife. **Te:** 243542.
STATION: EAJ43 1412kHz 212.4m 1kW: 08.00-24.00 (Reported with German Prgr. at 10.00-11.00 & 18.00-19.00 — **ANN:** Sp: "Aqui R. Club Tenerife, emisora EAJ43, en Santa Cruz de Tenerife, Islas Canarias" — **INT-SIG:** "Islas Canarias" — **V.** by letter.

RADIO JUVENTUD DE CANARIAS (C.A.R.)
ADDR: Castillo 27, Santa Cruz de Tenerife. **Te:** 243692.
STATION: EFJ57 881kHz 340.5m 10kW — **HOME SCE:** 07.00-01.00.
ANN: "R. Juventud de Canarias" — **INT-SIG:** The first notes from "Tierra Canaria" — **V.** by letter.

RADIO POPULAR DE GUIMAR
ADDR: San Pedro Ariba, Guimar (Tenerife).
STATION: EAK83 1502kHz 199.7m 2kW — **HOME SCE:** 08.00-12.00, 13.00-19.00, 20.00-24.00 — **ANN:** "R. Popular de Güimar, Emisora diocesana, Villa de Güimar, Tenerife.

LA VOZ DEL VALLE DE LA OROTAVA
ADDR: Plaza del Ayuntamiento, Villa de la Orotava.
STATION: CES25 1480kHz 202.7m 0.4kW — **ANN:** "La Voz del Valle de la Orotava, Emisora Sindical, la Orotava, Tenerife".

RADIO ECCA (Cultural)
ADDR: R. Popular de Gran Canaria, Apartado 994, Las Palmas. **Te:** 261212 — **L.P:** Dir. Gen: F. Villén Lucena S. J. Dir. Tec: J. Ruiz A.
STATION: EAK92 1268kHz 236.6m 10kW — 94.3MHz.
HOME SCE. in Spanish: 11.00-23.30 (Sun 09.00-21.00).
ANN: "R. Popular de Gran Canaria de la Cadena de Ondas Populares Españolas, EAK92, Radio ECCA, Emisora Cultural de Canarias" — **V.** by letter.

CAPE VERDE ISLANDS (Portuguese)

L.T: GMT − 2 h — **Pr.L:** Portuguese, English.

REPARTIÇÃO PROVINCIAL DOS SERVIÇOS DOS CORREIOS, TELEGRAFOS E TELEFONES DE CABO VERDE, Praia — **L.P:** Dir: A. da Silva Ramalho.

RADIO CLUBE CABO VERDE (Pr.)
ADDR: C.P. 26 Praia. **Te:** 344. **Cable:** Radio Clube — **L.P:** Pres: M. T. Diaz. Secr: J. M. da Costa Ferreira. Dir. Tec: F. A. da Cunha.
STATION: 3883kHz 77.25m 5kW.
HOME SCE. in Portuguese: 20.00-22.00 on 3883kHz. **N, Wrp:** 21.30.
ANN: "Aqui Praia Estação de Ondas Curtas do R. Clube de Cabo Verde" — **INT-SIG:** Five notes on Marimba — **V.** by QSL-card — **FM:** 98.0MHz 0.05kW.

R. BARLAVENTO (Gov.)
ADDR: C.P. 29, S. Vicente — **L.P:** Dir. Gen: M. C. P. Serra and F. Lopes da Silva. Mgr: A. Rocheteau. Dir. Tec: T. Barrio Vieira.
STATION: CR4AC 3910kHz 76.73m 1kW.
HOME SCE: W 13.00-14.00, 20.00-22.00; Sun 09.00-11.00, 13.00-15.00, 20.00-22.00 — **N:** 09.00, 22.00.
ANN: "Aqui Portugal, Provincia Ultramarina de Cabo Verde, Fala vos de S. Vicente a estação emissora de ondas curtas da Rádio Barlavento, a irradiar na frequencia de 3910kHz/seg. bando dos 75m"
INT-SIG: Gong and "Forca de cretcheu" (folklore) on guitar — **V.** by QSL-card. Rp. Recordings accepted — **F.PL:** 10kW tr.

RADIO CLUBE MINDELO (Pr.)
ADDR: C.P. 101, S. Vicente. **Te:** 476.
STATION: CR4AB 4715kHz (variable) 63.63m 0.25/0.45kW.
HOME SCE: W 05.00-06.00, 09.00-11.00, 16.00-18.00.
ANN: "Aqui R. Clube Mindelo estação de ondas curtas operando no comprimento de ondas de 63.53m frew. de 4715kHz" — **V.** by QSL-card or letter.

CENTRAL AFRICAN REPUBLIC

L.T: GMT + 1 h — **Pr.L:** Sango, French.

RADIODIFFUSION NATIONALE CENTRAFRICAINE (Gov.)
ADDR: B.P. 940, Bangui. **Te:** 2355 — **L.P:** St. Dir: V. Teteya. Dir. Tec: M. Mercier. Dir. N: R. Nzengou. Dir. Prgr's: J. Dasilva.
STATIONS (G.C: 18.35E/04.21N): mw 1kW, sw 30kW.
1570kHz 190m — 5035kHz 59.58m — 9595kHz 31.27m.
HOME SCE: W 04.30-07.00, 17.00 (Sat 16.30)-22.00 on 1570/5035kHz, 11.00-13.30 (Sat 12.00-16.30) on 1570/9595kHz; Sun 05.00-07.00, 16.30-22.00 on 1570/5035kHz, 07.00-16.30 on 1570/9595kHz — **N: French:** 05.45, 08.00(Sun), 11.45, 13.00, 18.30, 21.30. **English:** 19.30, 20.30(Sun), **Sangó:** 05.30, 08.15(Sun), 12.30, 17.15.
ANN: "Ndoso Bangui . . . Ici Bangui Radiodiff. Nationale Centrafricaine" — **INT-SIG:** National Anthem and st Sylvestre — **V.** by QSL-card — **ALF:** CFA 500,-.

CHAD (Republic of the)

L.T: GMT + 1 h — **Pr.L:** French, Arabic, Sara.

RADIODIFFUSION NATIONALE TCHADIENNE (Gov.)
ADDR: B.P.892, Fort Lamy. **Cable:** Radio Tchad. **Te:** 2273 — **L.P:** St. Mgr: vacant. Dir. Tec: I. M. Amane. Dir. Prgrs: G. Robert. Chief Editor: J. Gillis.
STATIONS (G.C: 15.03E/12.08N):

kHz	m	kW	kHz	m	kW
1538	195.0	1	9615	31.20	30
4904	61.18	30	11760	25.51	4

HOME SCE: 04.30-06.30 (Sun 08.00) on 1538/4904kHz, 12.30 (Sun 08.00)-16.10 on 1538/9615/11760kHz, 16.10-21.30 (Sat 23.00) on 1538/4904kHz.
NEWS: French: 05.30, 06.25, 12.30, 19.00, 21.15. **Arabic:** 05.40, 21.20. **Sara:** 05.50, 14.05, 21.25. **Gorane:** 13.40. **Toupouri:** 14.40. **Moundang:** 15.25. **Foulbé:** 16.25. **Massa:** 17.25. **Kanembou:** 18.05.
ANN: "Ici Fort Lamy, Radiodiff. Nationale Tchadienne émettant dans les bandes . . . " or "Ici Fort Lamy, Radiodiff. Nationale Tchadienne" — **INT-SIG:** Balafon — **V.** by QSL-card Rp. Recordings accepted — **PUB:** Prgr. schedule (weekly).

COMORO ISLANDS (French)

L.T: GMT + 3 h — **Pr.L:** French, Vernaculars.

OFFICE DE RADIODIF. TELEVISION FRANÇAISE (O.R.T.F.)
ADDR: B.P. 250, Moroni, Comores. **Te:** 203 — **L.P:** St. Mgr: A. J. Daumas. Dir. Tec: J. Carbonnel.
STATIONS: (G.C: 45.17E/12.45S):
3331kHz 90.06m — 7260kHz 41.32m 4kW — **FM:** 96.0MHz 0.05kW.
HOME SCE. in French, Comorian: 03.30-05.00, 09.00-11.00 (Sun 05.00-11.00) on 7260kHz, 15.30-19.30 on 3331kHz.
N. in French: 04.00(W), 05.15(Sun), 09.30, 16.45, 17.09.
N. in Comorian: 03.45, 19.00. **Wrp:** 17.00. **Time Signals:** 04.00, 09.30, 17.15.
ANN: "Vous êtes à l'écoute de la Station des Comores — Office de Radiodiff. Télévision Française" — **INT-SIG:** Foiklore Music played on native instrument — **V.** by letter. Rp. Recordings accepted — **PUB:** Prgr. schedule (monthly).

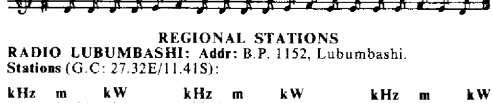
CONGO (Dem. Rep. of)

L.T: Kinshasa/Mbandaka GMT + 1 h; Lubumbashi/Kisangani: GMT + 2 h — **Pr.L:** French, Lingala, Kikongo, Tshiluba, Swahili.

RADIODIFFUSION-TELEVISION NATIONALE CONGOLAISE (Gov.)
ADDR: B.P. 3171, Kinshasa. **Te:** 3171.
STATIONS (G.C: 15.18/04.20S): *) inactive.

kHz	m	kW	kHz	m	kW	kHz	m	kW
*836	358.9	10	7115	42.16	50	15245	19.68	50
1331	225.4	1	7185	41.75	50			
4880	61.48	10	9775	30.69	10			

FM: 90.0MHz 0.25kW.
HOME SCE. in French/Vernaculars: 04.00-07.00 (Sun 10.00), 10.00-13.00 (Sat/Sun 15.00), 15.00-23.00.
(Also test tr's from 01.00 on 15245kHz).
Reg. Prgr. on 4880kHz: 10.00-13.00 (Sat/Sun 15.00), 15.00-21.00.
ANN: "Ici Kinshasa, R. diff. Télévision Nationale Congolaise". **Reg.** Prgr: "Ici Kinshasa, st. interprovinciale de la R. diff. Télévision Nationale Congolaise — **INT-SIG:** Tam Tam (native xylophone beat).



REGIONAL STATIONS

RADIO LUBUMBASHI: Addr: B.P. 1152, Lubumbashi.
Stations (G.C: 27.32E/11.41S):

kHz	m	kW	kHz	m	kW	kHz	m	kW
3285	91.32	10	7205	41.64	7.5	11866	25.28	100
5958	50.36	10	9540	31.45	20			

Home Sce. in French, Kiswahili, Vernaculars: W 04.00-07.00, 10.00-12.30 (Sat 13.00), 14.30-22.00; Sun 04.00-13.00, 14.30-22.00.
Foreign Sce: 15.00-21.00 on 11866kHz — **French:** 15.00-16.00, 17.00-18.00, 20.00-21.00. **N:** 15.30, 17.30, 20.30 — **Swahili:** 16.00-17.00. **N:** 16.30 — **Portuguese:**-18.00-19.00. **N:** 18.30 — **English:** 19.00-20.00. **N:** 19.30.
Ann: Home Sce: "Ici Lubumbashi, R. diff. Télévision Nat. Congolaise, station interprovincial du Katanga". Foreign Sce: "Ici Lubumbashi, la Voix de la Fraternité Africaine chain mondiale de la R. diff. Télévision Nat. Congolaise". E: "This is the Voice of African Brotherhood". P: "Aqui Lubumbashi, a Voz da Fraternidade Africano".
R. Mbandaka: Addr: B.P. 1061, Mbandaka.
5993kHz 50.05m 10kW: 05.00-07.30, 10.00-13.00, 15.30-21.00.
R. Bukavu: Addr: B.P. 475, Bukavu.
4889kHz 61.04m 10kW: 04.00-06.30, 10.30-13.00, 14.30-21.00.
R. Kasai: Addr: B.P. 708, Luluabourg. **Te:** 2417. **L.P:** St. Mgr: L. Mibanga. Dir. Prgrs: F. Tshibanga.
Station: 6125kHz 48.98m 10kW: W 04.00-06.30, 10.00-12.30, 14.30-20.00 (Sat 10.00-20.00); Sun 04.00-20.00.
N. in French: 04.30, 07.30 (Sun), 10.30, 16.30 (W), 17.00 (Sun), 19.15 — **V.** by letter. Recordings accepted.
R. Kisangani: Addr: B.P. 1745, Kisangani.
6085kHz 49.30m 10kW: 04.00-06.30, 10.00-13.30, 15.00-20.00.
R. Mbuji-Mayi: Addr: B.P. 2132, Mbuji-Mayi.
7295kHz 41.12m 20kW: 04.00-06.30, 10.00-13.00, 15.30-20.00.

CONGO (Rep.)

L.T: GMT + 1 h — **Pr.L:** French, English, Portuguese.

RADIO BRAZZAVILLE (O.R.T.F.)
ADDR: B.P. 108, Brazzaville. **Te:** 2234. **Cable:** Radiodiffusion — **L.P:** St. Mgr: R. Branellec. Dir. Tec: P. Simon.
STATIONS: (G.C: 15.18E/04.15S):

kHz	m	kW	kHz	m	kW	kHz	m	kW
3232	92.82	1.5	9730	30.83	14	15190	19.75	50
4795	62.57	4	11710	25.62	50	15445	19.43	50
5970	50.25	4	11725	25.58	50	17785	16.87	50
7105	42.22	4	11930	25.15	50	21500	13.95	50/1.5
9715	30.88	50	11970	25.06	4			

INTERNATIONAL SERVICE:
I = Africa; II = Madagascar; III = Far East; *2kW; **Sun only.

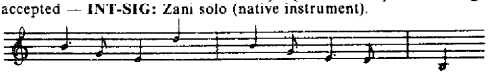
Times	Areas	kHz
05.00-07.15	I + II	3232/4795/5970/9730/11725/15445
11.00-12.00	I	11970/15445
11.00-12.45	I + II	3232/7105/11710/15190/21500*
13.00-14.00	III	17785/21500
14.00-17.00**	I	3232/7105/11710/17785/21500
17.30-20.50	I + II	3232/5970/7105/9730/11930/15190

NEWS: French: 05.00, 06.00, 07.00, 11.30, 12.30, 13.30, 17.30, 18.05, 19.00, 20.30. **English:** 05.15, 06.15, 11.00, 13.00, 19.15.
Portuguese: 11.45, 18.45.
ANN: F: "Office de Radiodiff. Télévision Française émettant de Brazzaville." E: "This is the O.R.T.F. speaking to you from Brazzaville". P: "Aqui Brazzaville, Serviço do Radiodiffusion Television Francesa" — **INT-SIG:** Five different notes played on a native instrument (Kizanzi) consisting of several vibrating iron bars attached to a wooden box — **V.** by QSL-card or letter. Rp — **PUB:** Prgr. sched. free.

RADIODIFFUSION TELEVISION CONGOLAISE (Gov.)
ADDR: B.P. 2241, Brazzaville. **Te:** 4334. **Cable:** Radio Congo. **L.P:** Dir: G. Bikouta-Menga. Dir. Tec: A. Ondongo. Dir. Prgr: A. Bimbakila. Dir. Adm: L. C. Ngoua-Aby.
STATIONS (G.C: 15.18E/04.15S):

kHz	m	kW	kHz	m	kW	kHz	m	kW
1475	203.4	4	6115	49.06	50	9715	30.66	50
3264	91.90	25	7175	41.81	25			
4765	62.96	50	9610	31.22	50			

HOME SCE. in French, Vernaculars: 04.30-06.30 on 1475/3264/4765/6115kHz, 11.00-13.15 & 15.30-17.00 (Sun 06.30-17.00) on 1475/6115/7175/9610kHz, 17.00-21.00 (Sat 22.00) on 1475/3264/4765/6115kHz (17.00-19.00 also on 9715kHz). **N. in French:** 04.45, 05.30 (Sun 09.00, 10.00), 11.30, 12.30, 20.45. **N. in Lingala/Kikongo:** 11.05, 17.15 (Sun 17.30).
ANN: "Ici la voix de la Révolution Congolaise, Station Nationale de Radiodiffusion Télévision" — **V.** by QSL-card. Rp. Recordings accepted — **INT-SIG:** Zani solo (native instrument).



DAHOMEY (Republic)

L.T: GMT + 1 h — **Pr.L:** French, Vernaculars.

RADIODIFFUSION DU DAHOMEY (Gov.)
ADDR: B.P. 366, Cotonou. **Cable:** Radiodahomey. **Te:** 2040.
STATIONS (G.C: 02.35E/06.21N): *Parakou.
1475kHz 203.4m 1kW — 3270kHz 91.74m 4kW.
*1578kHz 190.1m 0.1kW — 4870kHz 61.60m 30kW.
HOME SCE. in French & Vernaculars: Mon-Fri 05.30-07.00, 11.30-13.00 (Thurs, Fri 13.15), 16.30-22.00; Sat 05.30-07.00, 12.00-23.00; Sun 07.00-22.00.
NEWS: French: W 05.30, 06.15, 12.00 (Sat 12.40), 12.55, 13.10 (Thurs, Fri), 15.00 (Sat), 16.45, 19.00, 21.15; Sun 08.00, 11.40, 14.00, 17.00, 19.00 — **Vernaculars:** 12.00-12.20 (Sun), 12.15-12.25 (W), 13.10-13.20 (Sat), 16.50-18.05, 17.30-18.20 (Sun) — **English:** 19.20 (Mon/Wed/Sat).
ANN: French: "Ici Cotonou, Radiodiff. du Dahomey émettant sur . . ."
INT-SIG: Dahomey Tam-Tam — **V.** by QSL-card. Rp. Recordings accepted — **PUB:** Prgr. schedule (weekly) — **ALF:** CFA 500,-.

EGYPT (United Arab Rep.)

L.T: GMT + 2 h (Su 1/5 - 30/9 GMT + 3 h) — **Pr.L:** Arabic.

U.A.R. BROADCASTING & TV CORPORATION (Gov.)
ADDR: Prgr. Authority: Radio & T.V. Building, Kornish Road, Cairo. **Cable:** Kahiradio. Engineering Authority: P.O. Box 1186, Cairo. **Cable:** Cibrotev.
L.P: Prgr. Authorities: Chmn: A. H. El Hadidi. Gen. Contr. of Research & Intern. Rel: H. Shaaban. Dir. Foreign Prgr's: A. Taher. Dir. Arabic Prgr's: M. M. Shaaban. Dir. of Adm: A. W. Hamdi. **Eng. Authorities:** Chmn: A. Zayan. Vice Chmn: G. Kashlaan. Dir. Tec: A. Kandeel.
STATIONS: Medium Waves*) 150/300/450kW.

	kHz	m	kW		kHz	m	kW
Cairo III	557	538.6	50	Cairo VI	1061	282.8	
Batra I	620	483.9	*	Minia I	1079	278.0	5
Cairo II	710	422.0	100	Beni Suef I	1079	278.0	5
Cairo I	773	388.1	500	Quena I	1142	262.2	5
Batra II	818	366.7	*	Asyut II	1178	254.7	10
Cairo V	872	344.0	50	Alexandria I	1196	250.8	10
Cairo IV	926	324.0	10	Assuan II	1277	234.9	10
Asyut I	980	306.1	5				

Short Waves: 50/70/90/100kW.

kHz	m	kHz	m	kHz	m	kHz	m
6145	48.82	9595	31.37	11710	25.61	15055	19.93
6230	48.15	9605	31.23	11745	25.54	15090	19.88
7095	42.28	9615	31.20	11765	25.50	15115	19.85
7215	41.58	9640	31.12	11805	25.41	15135	19.82
7265	41.29	9685	30.98	11825	25.37	15175	19.77
9450	31.79	9710	30.90	11855	25.31	15210	19.72
9475	31.66	9755	30.76	11875	25.26	15260	19.66
9495	31.60	9790	30.64	11915	25.18	15300	19.61
9515	31.53	9815	30.57	11940	25.13	15345	19.55
9525	31.50	11655	25.74	11965	25.07	15360	19.53
9550	31.41	11685	25.67	11980	25.04	15415	19.46
9585	31.30	11695	25.65	12005	24.99	15475	19.39

kHz	m	kHz	m	kHz	m	kHz	m
17655	16.99	17760	16.89	17865	16.79	17930	16.73
17690	16.96	17785	16.87	17875	16.78	21585	13.90
17710	16.94	17805	16.85	17905	16.76	21615	13.88
17725	16.93	17840	16.82	17920	16.74		

HOME SERVICE

MAIN ARABIC PRGR:
04.00-06.00 on 818/980/1079/1142/1178/1277/9475/11655kHz.
06.00-08.00 on 818/980/1079/1142/1178/1277/9475/11655/17655kHz.
08.00-11.00 on 818/872/980/1079/1142/1178/1277/15475/17655kHz.
11.00-20.00 on 818/980/1079/1142/1178/1277/15175/15475/17875kHz.
20.00-23.55 on 818/980/1079/1142/1178/1277/11655/11875/17875kHz.
Note: 9475/15475/17655kHz beamed to Mid. East, No. & Ce. Africa & Europe; 11655/11875/15175kHz beamed to Arabian Gulf & So. Asia; 17655/17875kHz beamed to No. Africa.
N: 05.00, 12.30, 15.00, 18.30, 21.00, 13.30 — **Comm:** 12.45, 15.30, 18.45.
VOICE OF ARABS:
03.00-06.00 on 620/7215/15300kHz; 06.00-08.00 on 620/7215/11980 kHz; 08.00-11.00 on 620/710/15345/17840kHz; 11.00-21.00 on 620/15345/17840/17905kHz; 21.00-00.30 on 620/9525/15300/17905kHz.
Note: 7215/9525/15345kHz beamed to Mid. East, No. Africa, Ce. Africa & Europe; 15300/17840kHz beamed to Ea. Africa, Yemen, Saudi Arabia; 11980/17905kHz beamed to No. Africa. **N, Comm:** 03.30, 04.00, 04.30, 11.30, 15.00, 16.00, 17.00, 18.00, 20.30, 23.00, 00.30.
Palestine Prgr: 06.00-08.00, 14.00-15.00.
SUDANESE PRGR: 04.00-06.00 on 710/11915kHz, 12.00-16.25 on 872/9475/11915kHz — **N. Comm:** 04.20, 13.30, 15.30.
SECOND PRGR. (Cultural): 19.30-23.00 on 872kHz.
POPULAR CULTURAL PRGR: 14.00-22.55 on 710kHz — **N:** 14.30, 16.30, 22.30.
ALEXANDRIA REG. PRGR: 15.00-22.00 on 1196kHz — **N:** 17.30, 19.30.
FOREIGN LANGUAGE PRGR. (Local Service) on 557kHz: 05.00-08.30, 10.30-14.00, 16.30-22.00. **N:** English 05.30; French 06.00, 12.00, 19.00; German 05.45; Greek 05.01, 13.00; Italian 05.15, 12.30, 18.00.
KORAAN PRGR: 04.00-09.00, 12.00-21.00 on 1155/9795kHz.
MIDDLE EAST COMM. PRGR: 04.00-06.00 on 872kHz, 12.00-16.25 on 773kHz, 16.30-19.30 on 872kHz, 19.30-22.00 on 773kHz. **N:** 05.00, 13.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00.

FOREIGN SERVICE

TO SO. EA. ASIA: 11.45-13.00 Indonesian, 13.00-13.45 Malayan on 21695kHz; 14.00-15.00 Thai on 21615kHz; 10.30-12.15 Arabic on 17920kHz; 12.15-13.15 French on 17690kHz.
TO SO. ASIA: 12.15-14.30 on 17920kHz (12.15 Bengali, 13.15 **English**); 14.15-16.30 on 17690kHz (14.15 Hindi, 15.15 Urdu)
TO EA. AFRICA: 15.15-16.00 Arabic on 17655kHz, Dankali on 15055kHz; 16.00-17.30 Swahili on 17655kHz; 16.30-17.15 Amharic on 9475 or 11915kHz; 17.15-18.15 Somali on 11915kHz.
TO CE. AFRICA: 16.46-19.45 on 21585kHz (16.45 Shona, 17.30 Sindebele, 18.15 Nyanja, 19.00 Lingala); 17.30-18.45 **English** on 17655 kHz.
TO SO. AFRICA: 16.15-17.45 on 17785kHz (Sesotho 16.15 Zulu 17.00).
TO WE. AFRICA: 17.45-18.45 Portuguese on 17785kHz; 18.45-21.45 on 15135kHz (Ibo 18.45, Hausa 19.30, Arabic 21.00); 19.00-22.00 on 17690kHz (Oulof 19.00, Bambara 19.45, French 20.30); 19.15-20.10 Foulani on 21440kHz; 20.15-21.45 **English** on 21465kHz); 20.00-21.30 on 17920kHz (20.00 Yoruba, 20.45 French).
TO MIDDLE EAST: 14.00-15.00 Pushtu on 17655kHz; 14.30-16.00 Persian on 17920kHz; 16.15-17.15 Turkish on 6230kHz.
TO EUROPE: 18.30-23.00 on 9475/12005kHz (18.30 Italian, 19.30 French, 20.30 German, 21.45 **English**); 22.00-22.45 Arabic on 9780kHz.
TO NO. AMERICA: 00.45-03.30 on 9475kHz (00.45 Spanish, 02.00 **English**). 01.00-02.45 on 12005kHz. (01.00 Arabic, 01.45 French).
TO SO. AMERICA: 23.30-02.00 on 17690kHz (23.30 Portuguese, 00.45 Spanish); 00.00-00.45 Arabic on 17930kHz.
HEBREW PRGR: 04.00-05.00 & 12.00-16.30 on 557kHz.
ANN: Idha'at el Gumhuriya il Arabiya el Mutahada min el Kahira (Main Arabic Prgr); "Sowt el Arab" (Voice of the Arabs); "Idha'at Falastin min il Kahira" (Palestine Broadc. from Cairo); "Ruk'n e-Sudan" (Sudan Prgr); "Idha'at el Kur'an" (Koran Broadc); "Idha'at-e-Shark el Awsat min el Kahira" (Middle East Prgr); Foreign Sce: E: "This is Cairo Calling" or "This is the Voice of Africa from Cairo" F: "Ici Le Caire." G: "Hier is Radio Kairo".
INT-SIG: Camel Bells — **V. Re.** wanted. They are answered by QSL-card. Reports should be addressed to Propagation & Monitoring Dept, U.A.R. Broadcasting and T.V, P.O. Box 1186, Cairo— **PUB.** schedules four times per year. Weekly and quarterly magazines in Arabic — **FI:** by state subsidy, adv. Electric current taxes — **AD:** allowed in popular cultural prgr, Alexandria local prgr. & Middle East prgr.

ETHIOPIA

L.T: GMT + 3 h — **Pr.L:** Amharic, English, Somali, Arabic, French, Afar.

RADIO ETHIOPIA (Semi autonomous)
ADDR: Ethiopian Broadc. Sce, P.O. Box 1020, Addis Ababa. **Te:** 15933. **Cable:** Ethiopress — **L.P:** Gen. Mgr: N. Haptewold.
STATIONS (G.C: 28.43E/08.58N):

kHz	m	kW	kHz	m	kW
*854	351.3	100	6185	48.50	100
872	344.0	100	7290°	41.15	10
**944	318.0	50	°) to be increased to 100kW.		

*) Harar; **) Asmara; Others Addis Ababa.
HOME SCE (National): Amharic: Mon-Fri 04.30-06.00, 11.00-12.00, 17.00-20.00; Sat 04.30-06.00, 11.00-13.00; Sun 06.30-08.30, 11.00-14.30. **English:** W 10.00-11.00, 16.00-17.00; Sun 09.00-11.00. **Somali:** 03.30-04.30, 05.00-06.30 (Sun), 12.00-13.00 (Sat 13.00-14.30), 15.30-16.00. **Arabic:** 08.30-09.00 (Sun), 14.30-15.30. **French:** 16.00-16.30. **Afar:** 16.30-17.00.

RADIO VOICE OF THE GOSPEL

THE LUTHERAN WORLD FEDERATION BROADCASTING SERVICE

ETLF

daily broadcasts in:
Amharic, Arabic, English, French, Fulani, Hausa, Hindi, Malagasy, Mandarin, Persian, Sinhalese, Swahili, Tamil, Telugu.

BEAMED TO:
India
Ceylon
Middle East
Far East
Africa and
Madagascar

WRITE TO:
STATION
ETLF
BOX 654
ADDIS ABABA
ETHIOPIA

Local Sce (Regional) from Addis Ababa: 06.00-08.00(W), 08.00-10.00 (daily).
ANN: Amharic: "Yih ye Etiopia Radio new". English: "This is R. Ethiopia", Somali: "Halkani wa R. Etiopia". Arabic: "Huna saut Etiopia. French: "Ici R. Ethiopi", Afar: "Ah Etiopiah Radio"—V, by QSL-card. Re. in E, F or Amharic.

RADIO VOICE OF THE GOSPEL — LUTHERAN WORLD FEDERATION BROADCASTING SERVICE (Educ. Rlg.)
ADDR: P.O. Box 654, Addis Ababa. **Cable:** Lutherworld. **Te:** PBX 48190 — **L.P:** Gen. Dir: Sigurd Aske. St. Dir: P. M. Volz. Asst. St. Dir: E. Bauerochse. Prgr. Dir: J. E. Ofstad. Acting Tec. Dir: K. Gobena.
STATIONS (G.C: 38.38E/08.47N): 2 × 100kW tr's:

kHz	m	kHz	m	kHz	m	kHz	m
6065	49.46	11770	25.49	11935	25.14	15410	19.47
6170	48.62	11775	25.48	15130	19.83	15415	19.46
9525	31.49	11810	25.40	15155	19.80	15425	19.45
9570	31.35	11830	25.36	15170	19.78	15430	19.44
9600	31.25	11855	25.31	15180	19.76	17750	16.91
9680	30.99	11870	25.27	15190	19.75	17760	16.89
9695	30.94	11890	25.23	15270	19.65	17800	16.85
9705	30.91	11895	25.22	15315	19.59	17815	16.84
11730	25.58	11910	25.19	15400	19.48		

I = Ea. Africa; II = Madagascar; III = So. Africa; IV = We. Arab countries; V = Congo; VI = We. Africa; VII = Ceylon; VIII = Far East; IX = India (North); X = India (South); XI = Ea. Arab countries; XII = Iran; XIII = Ethiopia;
Schedule: November 68 — February 69.

Times	kHz Main	kHz Altern.	Beam	Areas	Language
03.00-03.30	11855	11830	163°	II	French
03.30-04.00	11855	11830	163°	II	Malagasy
03.30-03.55	9600	—	196°	I	Swahili
04.00-04.25	9600	—	196°	I	**English**
04.00-04.25	11855	11830	163°	II	French
04.30-05.55	15400	15130	353°	IV	Arabic
04.45-05.25	15170	15130	237°	V	French
05.30-05.55	11890	11775	267°	VI	**English**
12.30-13.00	17750	17800	57°	VIII	Mandarin
13.00-13.25	15315	15155	96°	VII	Sinhalese
13.30-13.45	15315	15155	57°	IX	**English**
13.30-14.00	15400	15410	79°	X	**English**
13.45-14.28	15315	15155	57°	IX	Telugu
14.00-14.25	15400	15410	79°	X	Tamil
14.30-15.10	15315	15155	57°	IX	Hindi
14.30-15.55	15400	15415	16°	XI	Arabic
15.15-15.55	15270	15190	163°	II	Malagasy
16.00-16.25	15400	15415	16°	XII	Farsi
16.00-16.55	6065	6170	360°	XIII	Amharic
16.30-16.55	11770	11935	16°	XII	Farsi
16.55-17.10	6065	6170	360°	XIII	**English**
17.00-17.15	9695	9525	196°	I	**English**
17.15-17.55	9695	9525	196°	I	Swahili
17.15-18.00	11810	11870	267°	VI	French
18.00-18.28	11810	11870	267°	VI	Fulani
18.00-19.00	9705	9570	196°	III	**English**
18.30-19.28	11810	11870	267°	VI	Hausa
19.10-19.45	15425	15410	267°	VI	French
19.30-20.15	11810	11870	267°	VI	**English**

Schedule: March — April 1969 (Tentative)

Times	kHz Main	kHz Altern.	Beam	Areas	Language
03.00-03.30	11730	11830	163°	II	French
03.30-04.00	11730	11830	163°	II	Malagasy
03.30-03.55	9680	9740	196°	I	Swahili
04.00-04.25	9680	9740	196°	I	**English**
04.00-04.25	11730	11830	163°	II	French
04.30-05.55	15400	15130	353°	IV	Arabic
04.45-05.25	15180	15170	237°	V	French
05.30-05.55	11890	11775	267°	VI	**English**
12.30-13.00	17760	17815	57°	VIII	Mandarin
13.00-13.25	15315	15155	96°	VII	Sinhalese
13.30-13.45	15315	15155	57°	IX	**English**
13.30-14.00	15400	15430	79°	X	**English**
13.45-14.28	15315	15155	57°	IX	Telugo
14.00-14.25	15400	15430	79°	X	Tamil
14.30-15.10	15315	15155	57°	IX	Hindi
14.30-15.55	15400	15170	16°	XI	Arabic
15.15-15.55	15315	15270	163°	II	Malagasy
16.00-16.25	15400	15430	16°	XII	Farsi
16.00-16.55	6065	6170	360°	XIII	Amharic
16.30-16.55	11770	11935	16°	XII	Farsi
16.55-17.10	6065	6170	360°	XIII	**English**
17.00-17.15	9695	9525	196°	I	**English**
17.15-17.55	9695	9525	196°	I	Swahili
17.15-18.00	11910	11895	267°	VI	French
18.00-18.28	11910	11895	267°	VI	Fulani
18.00-19.00	9705	9570	196°	III	**English**
18.30-19.28	11910	11895	267°	VI	Hausa
19.00-19.45	15410	15425	267°	VI	French
19.30-20.15	11910	11895	267°	VI	**English**

N: English: 04.00, 05.30, 13.30, 17.00, 18.00, 19.30. **French:** 04.15, 05.15, 17.45, 19.00. **Amharic:** 16.00. **Hausa:** 18.30. **Hindi:** 14.30. **Swahili:** 17.30.
Medium Wave Sce. (for Addis Ababa): 15.00-20.15 on 989kHz 1kW.

ANN: "This is R. Voice of the Gospel, ETLF, Addis Ababa, Ethiopia" — **INT-SIG:** First four notes of "A Mighty Fortress" on drums — **V.** by QSL-card, Recordings accepted.

GABON (Republic)

L.T: GMT + 1 h — **Pr.L:** French.

RADIODIFFUSION TELEVISION GABONAISE (Gov.)
ADDR: B.P.150, Libréville. **Te:** 3325. **Cable:** Radiotélégabon. **L.P:** Dir: P. Kounda-kiki. Dep. Dir: J. Nzendong. Dir. of Sound Broadc: A. Yangari.
STATIONS: 1) Libreville: G.C: 09.28E/00.25N; 2) Franceville: G.C: 13.33E/01.36S; 3) Oyem: G.C: 11.36E/01.40N; 4) Pt. Gentil: G.C: 08.42E/01.42N.

kHz	m	kW	kHz	m	kW	kHz	m	kW
3) 1205	249.0	1	1) 1554	193.1	1	1) 4777	62.80	25
4) 1232	243.5	1	1) 3300	90.91	4	2) 6030	49.75	4
2) 1250	240.0	0.1	2) 3350	89.55	4	1) 9525	31.50	25
1) 1313	228.5	1						

NATIONAL NETWORK in French: 05.00-06.30(W) on 1554/3300/4777kHz, 1250/3350kHz & 1205/1232kHz; 10.30-13.30 (Sat 16.30, Sun 07.00-16.30) on 1554/9525kHz, 1250/6030kHz & 1205/1232kHz; 17.30 (Sat/Sun 16.30)-21.30 (Sat 23.00) on 1554/4777kHz, 1250/3350 kHz & 1205/1232kHz.
N. in French: 05.45(W) 07.45 (Sun), 10.30 (W) 11.45, 13.25 (W), 14.00 (Sun), 18.30, 20.55; also at 17.45 (from Franceville & Oyem).
REG. NETWORK: 19.00-21.30 (Sat 23.00) on 1313kHz.
ANN: "Ici Libréville, Radiodiff. Télévision Gabonaise, chaine Nationale/Regionale" — **V.** by QSL-card or letter.

GAMBIA (British)

L.T: GMT — **Pr.L:** English, Mandinka, Wolloff, Vernaculars.

RADIO GAMBIA (Gov.)
ADDR: Bathurst. **Te:** 316. **Cable:** Broadcast **L.P:** Broadc. Officer: A. M. Lowe, M.B.E. Dir. Tec. & Telecom. Mgr: P. J. Warren.
STATION: 4820kHz 62.24m 3.1kW.
HOME SCE. in English, Wolloff Mandinka: Mon-Fri 17.10-20.30 (Sat/Sun 21.00). **N. in English:** 18.00(BBC), 18.09(local), 20.00(BBC). **N. in Wolloff:** 18.17, 20.03. **N. in Mandinka:** 18.27, 20.06.
ANN: E: "This is R. Gambia broadc. from Bathurst on a freq. of 4820kHz in the 60m.b." — **INT-SIG:** Music played on the cora, an indigenous harp-like instrument — **V.** by letter. Re. in E, F or Arabic. Recordings accepted — **PUB:** Prgr. schedules occasionally.

GHANA

L.T: — **Pr.L:** Akan, Ewe, Dagbani, Ga, Hausa, Nzema.

GHANA BROADCASTING CORPORATION (Autonomous Statutory Corp.)
ADDR: Broadcasting House, P.O. Box 1633, Accra. **Cable:** Broadcasts. **Te:** 21161 — **L.P:** Dir. Gen: W. F. Coleman. Dep. Dir-Gen: E. Adjorlolo. Dir. of Eng. J. K. Asare. Dir. of Sound Broadc: E. K. Senaya.
STATIONS: G.C: Accra 00.10E/05.42N — Ejura 01.22W/07.23N — Tema 00.12E/05.35N.

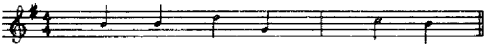
	kHz	m	kW		kHz	m	kW
Ejura	3350	89.56	20	Ejura	9640	31.12	20
Accra	3366	89.13	10	—	9760	30.74	250
—	4915	61.03	10	—	11800	25.42	250
Ejura	4980	60.25	20	—	11850	25.32	250
Tema	6070	49.42	100	—	15285	19.63	250
—	6130	48.94	100	—	17910	16.75	250
Accra	7295	41.12	10	Tema	21545	13.93	100
Tema	9545	31.43	100	Ejura	21720	13.81	250

NATIONAL SCE: On 4915kHz: 05.30-08.00, 12.00-23.00 (Sun 05.30-23.00); On 3350kHz: 05.30-08.00 (Sun 09.00), 16.00-23.00; On 9640 kHz 12.00 (Sun 09.00)-16.00.
COMMERCIAL SCE: On 3366kHz: 05.30-08.00 (Sun 09.00), 16.00-23.00; On 7295kHz: 12.00 (Sun 09.00)-16.00; On 4980kHz: 05.30-08.00, 12.00-23.00 (Sun 05.30-23.00).
N: English: 06.00, 07.00, 11.00 (Sun), 13.00, 14.00, 18.00, 20.00, 21.00. **Ghana Languages:** 05.45, 06.45, 12.15, 12.45, 18.45, 19.30.

EXTERNAL SCE: 4 × 100kW tr's at Tema (G.C.: 00.01E/05.42N), 2 × 250Kw tr's at Ejura (G.C: 00.00E/05.33N). I = No. Africa (UAR/Sudan); II = Sudan/Ethiopia; III = We. Africa; IV = So. Africa; V = Ce. Africa; VI = Ea. Africa; VII = No. America; VIII = Europe; IX = Angola; nd = non directional.

Arabic	kHz	Beam	Area	French	kHz	Beam	Area
16.00-16.45	21545	45°	I	17.30-18.15	6070	nd	III
20.00-20.45	9545	10°	I	19.00-19.45	11800	91°	V
English				19.00-19.45	9545	10°	VIII
14.00-14.30	17910	91°	II	19.00-22.15	6070	nd	III
14.00-22.15	6130	nd	III	**Hausa**			
15.00-15.45	17910	133°	IV	15.00-17.15	6070	nd	III
15.00-15.45	21545	130°	V	18.15-19.00	6070	nd	III
15.00-15.45	21720	91°	VI	**Portuguese**			
16.45-17.30	15285	91°	VI	14.00-14.15	21545	130°	IX
18.15-19.00	15285	91°	II	17.00-17.45	21545	130°	IX
20.00-21.00	11850	313°	VII	**Swahili**			
	9760	313°		14.00-14.30	21720	91°	VI
20.45-22.15	9545	10°	VIII	15.45-16.45			
French				17.30-18.15	15285	91°	VI
17.30-18.15	11800	91°	V				

NEWS: English 14.00, 15.00, 16.00, 16.45, 18.00, 18.15, 20.00, 20.45, 21.00, 22.00. **French:** 17.30, 19.00, 20.00, 21.00, 22.00. **Portuguese:** 14.00, 17.00. **Hausa:** 15.00, 16.00, 18.15. **Swahili:** 14.00, 15.45, 17.30. **Arabic:** 16.00, 20.00.
ANN: "This is the Nat. Sce. of the Ghana Broadc. Corpo." preceded by drumming or "This is R. Ghana" — **INT-SIG:** Guitar: First bars of National Anthem.



V. by QSL-card and letter. Re. on technical matters to Propagation Eng; on prgr's to Head of External Sce. Recordings accepted — **PUB:** "The Broadcaster" (monthly), "Radio Review & TV Times" (weekly), External Service schedule.

GUINEA (Equatorial)

L.T: GMT + 1 h — **Pr.L:** Spanish, Vernaculars.

EMISORA DE RADIODIFUSION SANTA ISABEL (Gov.)
ADDR: Apt. 195, Santa Isabel, Fernando Póo. **Te:** 382.
STATION: 6250kHz 48.00m 10kW — **HOME SCE:** 07.00-23.00 — **Spanish:** 07.00-15.30, 19.45-23.00; **Fang/Pamue:** 15.30-17.00; **Bubi:** 17.00-18.00; **Annobonés:** 18.00-18.30; **Combe:** 18.30-19.00; **English:** 19.00-19.45.
ANN: "Desde la isla de Fernando Póo, transmite EAJ205 R. Santa Isabel" — **INT-SIG:** "Los Voluntarios" — **V.** by letter.

RADIO ECUATORIAL (Gov. Comm.)
ADDR: Apt. 57, Bata, Rio Muni. **Te:** 182.
STATION: EAJ206 4926kHz 60.90m 5kW — **HOME SCE. in Spanish:** W 07.00-16.00, 18.00-22.00 (Sat 00.30); Sun 07.00-22.00 —
ANN: "Transmite R. Ecuatorial Bata, La Voz de Rio Muni".

GUINEA (Portuguese)

L.T: GMT + 1 h — **Pr.L:** Portuguese.

EMISSORA PROVINCIAL DA GUINE (Gov.)
ADDR: Av. da República, Bissau.
STATIONS (G.C: 15.35W/11.51N): 1050kHz 285.0m 1kW. 5041kHz 59.50m 10kW (reported on 5017kHz).
HOME SCE: 12.00 (Sun 10.00)-15.00, 18.00-24.00. **N:** 14.00, 20.00, 21.30, 23.45 — **ANN:** "Fala Portugal através da Emissora provincial da Guiné Portuguesa, a transmitir em ondas medias, no comprimento de 285m freq. de 1050kHz, e em ondas curtas, em 60m, freq. de 5041kHz" — **INT-SIG:** Guitar — **V.** by QSL-card or letter. Recordings accepted — **ALF:** Esc. 100, —

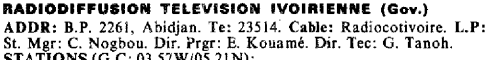
GUINEA (Republic.)

L.T: GMT — **Pr.L:** French, Vernaculars.

RADIODIFFUSION NATIONALE (Gov.)
ADDR: B.P. 617, Conakry. **Cable:** Radio Guinee. **Te:** 3366.
STATIONS (G.C. 13.40W/09.32N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
1403	213.8	60	4900	61.22	18	15310	19.60	100
3376	88.89	50	7215	42.11	18			
3385	88.63	50	9650	31.09	100			

HOME SCE. in French & National Languages: W 06.00-08.00, 12.00-14.00 (Sun 08.00-16.00) on 1403/4900/7125/15310kHz, 16.00-24.00 on 1403/3385/4900/7125/9650kHz.
N. in English: 20.20 (irr,)
ANN: F: "Ici la Voix de la Révolution (before news) "or "Ici Conakry, Radiodiff. Nationale" or "Ici Conakry Radiodiff. de la République de Guinee". E: "Here is the Voice of the Revolution" — **INT-SIG:** First movements of the popular heroic song "Alpha Yaya" (first movements of Guinean National Anthem) on Guitar:



V. by letter.

IVORY COAST (Republic)

L.T: GMT — **Pr.L:** French, Vernaculars.

RADIODIFFUSION TELEVISION IVOIRIENNE (Gov.)
ADDR: B.P. 2261, Abidjan. **Te:** 23514. **Cable:** Radiocotivoire. **L.P:** St. Mgr: C. Nogbou. Dir. Prgr: E. Kouamé. Dir. Tec: G. Tanoh.
STATIONS (G.C: 03.57W/05.21N):

kHz	m	kW	Netw.	kHz	m	kW	Netw.
1240	241.9	1	I	4940	60.73	10	I
1493	200.9	4	II	6015	49.88	100	II
1578	190.1	5	I	7215	41.58	1	II
3242	92.54	25	I	11920	25.17	100	II

D.PRGR's: National Netw. (I): W 06.00-08.00, 12.00-14.00 (Sat 17.00), 17.00-24.00; Sun 06.00-24.00 — **N. in French:** 06.02, 06.45(W), 07.30 (Sun), 07.55(W), 09.00(Sun), 10.00(Sun) 11.00(Sun), 12.00(Sun), 12.02(W), 12.45, 13.55(W), 19.00, 20.00, 22.30, 23.55. **Vernaculars:** 17.30-18.30.

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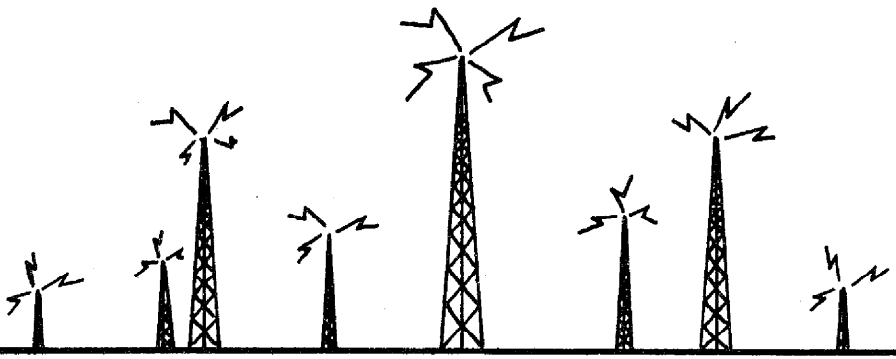

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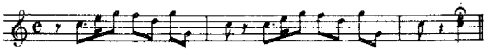
International Netw. (II): 06.30-08.00, on 1493/6015/7215kHz, 12.00-14.00 (Sun 08.00-18.00) on 1493/7215/11920kHz, 18.00-24.00 on 1493/7215 & 11920 (or 6015)kHz — **N. in French:** 06.32(W), 07.15(W), 07.30(Sun), 07.55(W), 10.00(Sun), 11.00(Sun), 12.00(Sun), 12.02(W), 12.45, 13.55(Sun), 15.00(Sun), 16.00(Sun), 17.00(Sun), 18.00(Sun), 18.02(W), 20.00, 22.30:
English: W 18.30-19.00. **N:** 18.30 — **Vernaculars:** 19.00-19.30(W).
ANN: "Ici Abidjan, Radiodiff. Télévision Ivorienne, chaine nationale. or chaine internationale". E: "This is the Ivory Coast Broadc. System". **INT-SIG:** Vibraphone.



V. by QSL-card. Rp. appreciated.

KENYA

L.T: GMT + 3 h — **Pr.L:** English, Swahili, Hindustani.

VOICE OF KENYA (Gov.)

ADDR: Box 30456, Nairobi. **Te:** 24211. **Cable:** Broadcasts
L.P: Dir. R. Koske. Chief Eng: R. J. Davey. Comm. Mgr: M. K. White.

HOME SERVICES

General Sce. (English) from Nairobi: Mon-Fri 03.15-11.00, 13.00-20.15; Sat 03.15-21.00; Sun 04.00-20.30.
*7246kHz 402.1m 100kW — **F.M:** 95.1MHz 1kW: as above.
** 1286kHz 233.3m 0.5kW — ***1304kHz 230.1m 0.5kW: as above.
4885kHz 61.41m 10kW: 03.15 (Sun 04.00)-06.15, 13.15-20.15 (Sat 21.00)
7240kHz 41.44m 10kW: 06.30-13.00. **N:** 04.00, 06.00, 10.15, 11.00, 16.10 (Sat 16.00, Sun 17.00), 18.00, 18.10 (W).
Nat. Sce. (Swahili) from Nairobi: 03.00 (Sun 04.00)-20.15 (Sat 21.00).
*611kHz 491m 100kW — **FM:** 92.9MHz 1kW: as above. —
**1106kHz 271.2m 0.5kW — ***1133kHz 264.8m 0.5kW *Nairobi — **Nyeri — ***Nakuru.
4934kHz 60.80m 10kW: 03.15(Sun 04.00)-06.30, 13.00-20.15 (Sat 21.00).
7210kHz 41.61m 10kW: 06.45-12.45.
Hindustani Sce. (Nairobi): W 03.45-05.30 (Sat 05.00), 09.00-11.00, 13.00-20.00 (Sat 09.00-20.00), Sun 05.00-20.00.
1268kHz 236.6m 50kW: as above.
4855kHz 61.79m 5kW: 03.30 (Sun 04.00)-05.30 (Sun 06.30), 13.15-20.00
7125kHz 72.11m 5kW: 09.00 (Sun 06.45)-11.00 (Sat/Sun 13.00).
N. in English: D 16.00, 18.00.
Eastern Service (Swahili & Somali): 4915kHz 61.03m 100kW: 03.30-05.00, 09.00-11.00, 15.00-21.00 (Sun 03.20-21.00).
Nairobi Reg. station: 03.30, 05.00, 09.15-10.30, 13.15-18.15
1268kHz 236.6m 5kW: as above
4950kHz 60.66m 5kW: 03.30-05.00, 13.15-18.15
Mombasa station: 791kHz 379.3m 20kW: W 03.00-05.00, 10.00-11.00, 14.00-20.15; Sat 03.00-21.00; Sun 04.00-20.15.
Kisumu station: W 03.00-05.00, 09.00-11.00, 14.00-20.15. Sat 03.00-21.00; Sun 04.00-20.15
953kHz 314.6m 5kW: as above.
4804kHz 62.44m 5kW: 03.15 (Sun 04.00)-05.00 (Sat/Sun 06.15), 14.00 (Sat/Sun 13.15)-20.15 (Sat 21.00)
7295kHz 41.12m 5kW: 10.00 (Sat/Sun 06.30)-11.00(Sat/Sun 13.00).
ANN: All tr's are regularly identified by the words "Voice of Kenya" preceded by the appropriated nat. or. reg. service identity — **INT-SIG:** Drums — **V.** by letter. Re. to Chief Eng. Recordings accepted — **ALF:** £ 1/0/0.

LESOTHO (Kingdom)

L.T: GMT + 2 h — **Pr.L:** Sesotho, English.

RADIO LESOTHO (Gov.)

ADDR: P.O. Box 353, Maseru — **L.P:** Dir. of Inf: U. B. Tristan.
STATIONS: 899kHz 333.7m 2kW — 1196kHz 250.8m 0.66kW.
HOME SCE. in Sesotho, English: 04.30-06.00, 15.00-19.30 (Sun 18.00). **N: English** 05.00 (BBC), 05.10, 15.30. **Sesotho:** 04.45, 16.45, 18.45(W).
ANN: "This is R. Lesotho broadc. on 899 and 1196kHz"
INT-SIG: Nat. Anthem — **V.** by letter. — **F.PL:** FM tr. at Maseru — **PUB:** Prgr. schedule available on request.

RADIO STATION: 7PA22 (Educ.)

Owned and operated by the Educational Secretary Roman Catholic Schools, Lesotho — **ADDR:** Catholic School Secretariat, P.O. Box 80, Maseru. **Te:** 2525 — **L.P:** St. Mgr: F. Mairot. Dir. Tec: B. Chabot.
STATIONS: 3824kHz 78.46m 0.1kW
HOME SCE. in Sotho/English/French: W 09.30-10.30 (N. in English/Sesotho/French), Sat 18.00-19.00 (Music & Greetings in Sesotho), Sun 10.30-11.00 (Sermon in French)
ANN: "7PA22 Maseru" — **INT-SIG:** Local Basuto instrument — **V.** by letter — **ALF:** R.2.00.

LIBERIA (Rep. of)

L.T: GMT — ½ h — **Pr.L:** English, Liberian-Vernaculars.

STATION ELBC LIBERIAN BROADCASTING CORPORATION

ADDR: P.O. Box 594, Monrovia. **Te:** 22641. **Cable:** Broadcasts — **L.P:** Gen. Mgr: G. H. Andrews. Chief Eng: K. Bailey.
STATIONS (G.C: 10.42W/06.14N): 10kW.
629kHz 476.9m — 3255kHz 92.15m — 6090kHz 49.26m.
HOME SCE: 06.15 (Sun 07.15)-10.45 on 629/3255kHz, 12.45 (Sun 10.45)-19.45 on 629/6090kHz. 19.45-00.45 on 629/3255kHz — **N. in English:** 06.30*, 08.00, 09.15, 10.40, 13.00, 14.45, 16.00, 18.00, 20.10*, 21.45, 23.45 — *African N — **N. in African dialects:** 07.10, 16.10, 18.10 — **ANN:** "This is the Liberian Broadc Corp, Monrovia" — **V.** by QSL-card — **FI:** by adv.

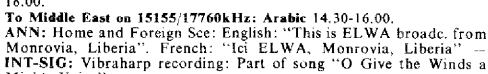
RADIO STATION ELWA

(Non-Comm, Cultural Missionary Broadc. Sce. of the Sudan Interior Mission)
ADDR: Box 192, Monrovia. **Cable:** Evangel — **L.P:** Gen. Mgr: Rev. P. Draper. Village Mgr: E. Balzer. Radio Mgr: R. Cornelius. Dir. of Prgr's: B. Bliss. Dir. Tec: H. Ries. Dir. Counselling: Rev. D. Miller.
STATIONS: (G.C: 10.42/06.14N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
710	422.0	10	7225	41.52	10	15125	19.83	50
3225	93.05	10	11950	25.10	50	15155	19.80	50
4770	62.89	10	11975	25.05	50	17760	16.89	1

HOME SCE. (for Liberia/We. Africa):
English: W 06.15-08.15, 17.45-18.15, 20.15-22.50 (Sat 23.15) on 710/4770kHz; 18.15-20.15 (Sat 16.45-23.15) on 710kHz, Sun 07.45-19.00, 20.15-22.45 on 710/4770kHz; 19.00-20.15 on 710kHz. **N:** 07.00*, 07.10, 18.00*, 18.10, 19.00, 20.00*, 20.10, 21.45 — **French:** 19.00-20.00 on 4770kHz — **Liberian Languages:** W 06.15-08.15, 18.00-22.45 on 3225kHz; Sun 06.15-10.45, 18.15-22.45 on 3225kHz — **West African Languages:** 18.15-19.00 on 4770kHz; Sun 06.45-07.45 on 4770kHz. **Arabic:** 10.45-11.15 on 3225kHz.

FOREIGN SCE: *) = rel. BBC.
To Central Africa: W 06.00-07.30 (Fri 07.45, Sat 08.15) on 11950kHz, 12.00-13.00 & 16.45-21.00 on 11975/17760kHz; Sun 06.00-10.00 on 11975kHz, 12.00-13.30 & 16.00-21.30 on 11975/17760kHz.
English: W 06.00-07.15(Sat 08.00), 15.30-16.45; Sun 06.00-08.00, 10.00-12.00, 15.30-16.45. **N:** W 06.00*, 07.00, 16.00*, 16.10
French: 08.00-10.00(Sun only), 12.00-13.30(Sun only) — **Nigerian Languages:** W 14.15-15.30, Sun 13.30-15.15. **Twi:** 07.15-07.30. **Moré:** 07.45-08.00(Sat) on 11950kHz, 13.30-13.45 on 11975/17760kHz(Sun), 18.30-18.45(Thurs) on 4770kHz.
To W. Africa on 7225kHz: 18.15-19.45 W. African languages.
To N. Africa on 15155kHz: French 21.00-22.00; **Arabic** 20.00-21.00
To So. America on 15125kHz: Portuguese 22.00-22.45.
To Congo on 15155kHz: Congo Languages 16.00-17.00; **French:** 17.00-18.00.
To Middle East on 15155/17760kHz: Arabic 14.30-16.00.
ANN: Home and Foreign Sce: English: "This is ELWA broadc. from Monrovia, Liberia". French: "Ici ELWA, Monrovia, Liberia" — **INT-SIG:** Vibraharp recording: Part of song "O Give the Winds a Mighty Voice".



FI: Supported by voluntary gifts from evangelical Christian groups and "share-the-cost" plan.

VOICE OF AMERICA RADIO STATION IN LIBERIA

ADDR: Voice of America, Washington, D.C. 20547, USA.
Short Wave: Monrovia (G.C: 10.33W/06.26N): 20/250kW.

kHz	m	kHz	m	kHz	m	kHz	m
3990	75.19	9735	30.82	15325	19.58	17870	16.79
6035	49.71	9750	30.77	15360	19.53	17875	16.79
6180	48.54	11740	25.55	15370	19.52	21520	13.94
7135	42.05	11915	25.18	15445	19.43	21660	13.85
7175	41.84	11970	25.06	17740	16.91	21670	13.84
7195	41.70	15195	19.74	17780	16.87		
7280	41.21	15265	19.66	17800	16.85		
9530	31.48	15270	19.65	17855	16.80		

D.PRGR: English: 03.00-07.30, 14.00-23.45. **French:** 06.00-07.30 (Mon-Fri), 18.30-21.00. **Swahili:** 17.00-18.00

ANN: "This is the Voice of America" is given in the language of the program and in English — **INT-SIG:** Theme of "Columbia, the gem of the Ocean" — **V.** by QSL-card.

LIBYA (Kingdom of)

L.T: GMT + 2 h — **Pr.L:** Arabic.

LIBYAN BROADCASTING AND TV SERVICE

ADDR: P.O. Box 333, Tripoli; P.O. Box 274, Benghazi. **Te:** 32451 (Tripoli), 3311 (Benghazi). **Cable:** Idaalibya —

STATIONS	kHz	m	kW		kHz	m	kW
Benghazi	674	445.1	100	Benghazi	1594	188.2	5
Tripoli	1052	285.1	50	El Beida	5965	50.29	100
Tripoli	1214	247.1	5	El Beida	7165	41.87	100
Tobruk	1394	215.2	10	El Beida	9565	31.36	100

G.C: Tripoli (El Beida) 13.15E/32.52N — Benghazi 20.04E/32.07N.
HOME SCE. in Arabic: 04.30-08.00, 12.00-22.15 (Fri 04.30-22.15)
N: 05.30, 07.55, 12.30, 15.30, 17.00, 18.30, 19.30, 21.00, 22.05.
ANN: "Hunna Al Idaa Allibia Min Tarablus" (from Tripoli) or "Hunna Al Idaa Allibia Min Benghazi (from Benghazi).
INT-SIG: Prgr's open and close with National Anthem. **V.** by letter —

F.PL: Sw-Sce from Benghazi using 3305, 3905, 6025, 7275, 9895 or 11960kHz.

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ADDR: B.F.P.O. 56, Tobruk — **L.P:** Contr: P. K. Holwill. Sen. Eng: P. F. Blanchette. Prgr. Org: R. L. Neil.
STATIONS: 1484kHz 202.2m 1kW — 1439kHz 208m 1kW.
FM: 89MHz, *90.2MHz 0.075kW; * = El Adem.
D.PRGRS: W 04.00-08.00, 14.00-21.00. Sun 06.15-10.15, 14.00-21.00.
N(BBC): 04.00, 05.00, 06.00, 16.00, 18.00, 20.00.
ANN: "This is the British Forces Broadc. Sce. Tobruk" — **V.** by QSL-card.

MADEIRA (Portuguese)

L.T: GMT — **Pr.L:** Portuguese.

ESTAÇÃO RADIO DA MADEIRA (Pr.)
ADDR: C.P. 450, Funchal. **Te:** 21883 — **L.P:** Dir: Major M. Portela Ribeiro.
STATION (Pico dos Barcelos): CSB90 1484kHz 202.2m 1kW.
HOME SCE: W 08.00-10.00, 12.00-23.30; Sun 08.00-23.00. Occasionally also in English and French — **ANN:** "Estação Rádio da Madeira no comprimento d'onda de 202m, frequencia de 1484kHz" — **V.** by letter.

POSTO EMISSOR DE RADIODIF. DO FUNCHAL (Pr.)
ADDR: Rua Ponte de S. Lázaro 3, Funchal. **Te:** 21797. **L.P:** Dir: Dr. W. Edw. Clode.
STATIONS (Monte): CSB91 1529kHz 196.2m 0.3kW — **FM:** 91.9 MHz 0.25kW.
HOME SCE: 1529kHz: W 08.00-10.30, 12.00-18.00, 19.00-24.00: Sun 08.00-24.00 — **FM:** D 20.30-22.30.
ANN: "Aqui Funchal, studio do posto emissor de radiodif." — **V.** by letter.

EMISSOR REGIONAL DO ARQUIPELAGO DA MADEIRA (Gov.)
ADDR: Rua dos Netos 27, Funchal. **Te:** 27355 — **L.P:** Dir: Ruy Ivo da Silva Vieira Nunes Pereira.
STATION (Terreira da Luta): 1331kHz 225m 1kW.
HOME SCE: W 11.30-14.00, 19.00-23.00; Sun 12.00-23.00.
N: 13.00 & 20.30 (relay Emissora Nacional) plus 5 min. local news, 22.50 (local + wrp) — **Football:** Sun 14.00-19.00 — **ANN:** "Studios na Madeira da Emissora Nacional" — **V.** by letter — **F.PL:** 10kW mw-tr and FM-tr.

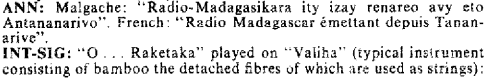
MALAGASY REPUBLIC

L.T: GMT+3 h—**Pr. L:** Malgache, French.

RADIODIFFUSION NATIONALE MALGACHE (Gov.)
ADDR: B.P. 442, Tananarive. **Cable:** R. Madagascar. **Te:** 223-81.
L.P: Dir. R. Rabesahala.
STATIONS (G.C: 47.35E/18.50S):

kHz	m	kW	Netw.	kHz	m	kW	Netw.
1187	252.7	1	III	5010	59.88	30	II
1394	215.1	4	II	7105	42.22	4	II
1502	199.7	4	II	7155	41.92	4	I
3232	92.82	30	—	9515	31.53	30	II
3288	91.24	30	II	9690	30.96	30	I
4955	60.54	4	III	15270	19.65	100	—
4985	60.18	30	I	17730	16.92	100	—

HOME SCE: Net I (Malagasy): W 03.00-05.00, 08.00-11.00, 15.00-19.30; Sat 03.00-19.30; Sun 03.30-19.30.
On 1394/7155kHz: as above. On 4985kHz: 03.00-05.00 (Sat/Sun 06.00). 15.00 (Sat/Sun 13.58)-19.00. On 9690kHz: 08.00-11.00 (Sat/Sun 06.00-1358)—**N:** Mon-Fri 03.05, 04.00, 08.15, 09.30, 10.30, 16.15, 18.30; Sat 03.05, 04.00, 05.30, 06.30, 07.30, 08.15, 09.30, 10.30, 16.15, 18.30—**N. in French:** 05.45, 06.45, 07.45.
Net II (French): W 03.30-05.15, 09.00-11.00, 15.00-19.30; Sat 03.30-21.00; Sun 04.00-19.30.
On 1502/7105kHz: as above. On 5010kHz: 03.30-05.15 (Sat/Sun 06.00), 15.00 (Sat/Sun 13.58)-19.00 (Sat 21.00). On 9515kHz: 08.00—11.00 (Sat/Sun 06.00-13.58)—**N:** W 03.45, 04.45, 09.15, 09.45, 10.30, 15.30, 16.30, 19.15; Sun 05.15, 09.15, 09.45, 16.30, 19.15.
Prgr. III (Malagasy): 15.30-19.00 on 1187/4955kHz.
FOREIGN SERVICE: Test tr's in French & English 13.30-14.30 on 17730kHz & 16.00-17.00(irr) on 15270kHz towards West Africa & Europe in French & English.
ANN: Malgache: "Radio-Madagasikara ity izay renareo avy eto Antananarivo". French: "Radio Madagascar émettant depuis Tananarive".
INT-SIG: "O . . . Raketaka" played on "Valiha" (typical instrument consisting of bamboo the detached fibres of which are used as strings):



V. by QSL-card. Recordings accepted.

RADIO UNIVERSITE (Gov, Educ.)
ADDR: B.P. 909, Tananarive. **Te:** 22218—**L.P:** Dir. Gen: R. Roblot. St. Dir: M. Bedu. Dir. Tec: B. Razakaboay.
STATIONS: 1466kHz 204.6m 1kW—3370kHz 88.02m 4 kW—6070kHz 49.42m 4 kW.
HOME SCE: W 03.15-04.30, 15.30-19.00 on 1466/3370kHz; Sun 12.00-14.00 on 1466/6070kHz, 14.00-19.00 on 1466/3370kHz. (no broadcasts 1/7-15/10, 25/12-3/1 and at Easter time).
ANN: "Ici R. Madagascar, R. Université émettant de Tananarive"—**V.** by letter.

MALAWI

L.T: GMT+2 h—**Pr.L:** Chinyanja, Chitumbuka, English.

MALAWI BROADCASTING CORPORATION
(Independent statutory body).
ADDR: P.O. Box 453. Blantyre. **Te:** 8461. **Cable:** Radomalawi.
L.P: Dir. Gen: J. H. Parry. Secr. & Head of Adm. E. O'Callaghan. Comm. Mgr: E. L. Vnadagriff. Chief Eng: G. K. MacDonald. Prgr. Mgr: A. Cox. Head of N: C. A. H. Kachingwe.
STATIONS: (G. C: Blantyre 35.02E/15.42S):

	kHz	m	kW		kHz	m	kW
Lilongwe	602	498.4	1	Fort Johnston	899	333.7	1
Karonga	692	433.5	1	Blantyre	3380	88.76	10
Blantyre	764	392.6	10	Blantyre	5995	50.04	10

FM: 92.2MHz (Blantyre), 90.4MHz (Lilongwe), 96.1MHz (Zomba), 98.3MHz (Limbé).
HOME SCE: 03.00 (Sun 04.00)-21.05 (Sat 23.05).
On 3380kHz: 03.00 (Sun 04.00)-06.05, 14.50-21.05 (Sat 23.05). **On 5995kHz:** 06.10-14.45.
N. in English: 04.00 (W), 05.00, 06.00, 07.00 (W), 08.00, 09.00 (W), 11.00, 12.00 (W), 13.00 (W), 14.00 (W), 16.00, 18.00, 20.00 (W), 21.00, 22.00 (Sat), 23.00 (Sat). **Chinyanja:** 04.05, 05.05 (Sun), 11.10, 16.30. **Chitumbuka:** 04.10 (W), 05.10 (Sun), 11.15 (Mon-Fri), 11.20 (Sat/Sun), 16.45.
ANN: E: "This is the Malawi Broadc. Corpo", or "This is the MBC". —**INT-SIG:** Cock Crow+Drums—**V.** by letter—**F. PL:** New st's at Mzimba, Nsanje & Nkhota-Kota; A second prgr. over a high-powered sw-tr for Malawi and Neighbouring countries—**PUB:** "Malawi Calling" (weekly).

MALI (Rep. of)

L.T: GMT—**Pr. L:** French, English, Vernaculars.

RADIO MALI (Gov.)
ADDR: B.P. 171, Bamako. **Cable:** Radio Mali. **Te:** 2474—**L.P:** Dir: M. Racine Kane. Dir. Tec: M. Keita.
STATIONS: (G.C. 07.58W/12.38N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
1268	236.6	4	7285	41.18	18	9745	30.78	50
1430	210.0	60	9570	31.35	18	11750	25.53	50
3380	88.76	18	9635	31.14	18	11815	25.39	50
4835	62.05	18						

HOME SCE. in French, English, Bambara, Sonraie, Peul, Sarakolé, Ouloff, Tamachek, Maure: Nov/Feb: W 06.00-08.00 on 3380/4835 kHz, 12.00-14.00 (Sat 17.30) on 9570/9635kHz, 18.00 (Sat 18.30)-23.00 on 3380/4835kHz; Sun 08.00-17.30 on 9570/9635kHz, 18.30-23.00 on 3380/4835kHz.
March/April: W 06.00-08.00 on 3380/4835kHz, 12.00-14.00 (Sat 17.30) on 7285/9570kHz, 18.00 (Sat 18.30)-23.00 on 3380/4835kHz; Sun 08.00-17.30 on 7285/9570kHz, 18.30-23.00 on 3380/4835 kHz. All prgr's also on 1268/1430/9745kHz.
N: French: 07.00 (W), 09.00 (Sun), 12.45, 20.15, 22.30. **English:** 12.25, 19.55. **Vernaculars:** D 12.30, 13.15 W 18.45, 19.00, 19.15, 19.35—**LL** (elementary French): 19.45. **Special Prgr. on 11750kHz:** Mon 10.30-11.15 in French.
Reg. Station: Mopti 1268kHz 236.6m 4kW (relay Bamako).
ANN: F: "Ici Bamako, Radiodiff. Nationale de la République du Mali émettant sur . . ." — **INT-SIG:** African Music on local instrument "Cora" — **V.** by QSL-card. Recordings accepted. Rp. — **F.PL:** four 50kW sw-tr's.

MAURITANIA (Rep. Islamic)

L.T: GMT — **PrL:** French, Arabic, Vernaculars.

RADIODIFFUSION NATIONALE DE MAURITANIE (Gov.)
ADDR: B.P. 200, Nouakchott. **Te:** 2164 — **L.P:** Dir: M. B. Fall. Chief Eng: G. Preu d'Homme. Minister of Inf: M. O. Braham.
STATIONS (G.C: 16.00W/18.08N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
1349	222.4	1*	7245	41.41	4	11800	25.42	30
4850	61.87	30	9610	31.22	30			

*) to be increased to 20kW in April 1969.
HOME SCE: W 07.00-08.00 on 1349/4850kHz, 12.00-14.30 on 1349/7245/9610kHz, 18.00-22.30 on 1349/4850kHz; Sun 08.00-14.00 on 1349/7245/9610kHz, 17.00-23.00 on 1349/4850kHz. **NEWS: French:** 07.25(W), 10.50(Sun), 13.00(W), 20.00, 22.12(W), 22.45(Sun). **Arabic:** 07.20(W), 08.55(Sun), 13.15(W), 20.30, 22.05(W), 22.35(Sun). **Ouolof:** 12.00, 18.00(W), **Sarakolé:** 12.20, 19.00(W). **Toucoleur:** 12.40, 18.30(W) —**ANN:** "Ici Nouakchott, Radiodiff. de la République Islamique de Mauritanie" — **INT-SIG:** Mauritanian guitar — **V.** by QSL-card. Rc. in F, Arabic — **AD:** 2 × 30 seconds at 07.00, 20.00.

MAURITIUS (British)

L.T: GMT+4 h—**Pr. L:** English, French, Hindustani, Chinese.

MAURITIUS BROADCASTING CORPORATION (Comm.)
ADDR: Broadcasting House, Forest Side. **Te:** Curepipe 507. **Cable:** Broadcasts—**L.P:** Dir. Gen: G. Caughan. Chief Eng: N. Rambert. Head of News Dept: P. McCaw. Prgr. Contr: J. Dalaitre. Head of Sales: J. Cantin.

Mauritius—Mozambique

STATIONS: (G.C: 57.31E/20.19S): 10kW. 683kHz 439.2m—4850kHz 61.86m—9710kHz 30.90m.
HOME AND DEPENDENCIES: D 02.30-18.30.
683kHz: as above. 4850kHz: 13.00-18.30. 9710kHz: 02.30-13.00.
English/French: W 03.00-10.30, 14.30-18.30 (Sat 19.00); Sun 03.00-09.00, 14.30-18.30. **N: French:** 03.30, 06.00, 08.30, 15.00, 16.00, 17.30. **English:** 04.00, 18.00—**Wrp:** 03.40, 15.10 (F), 04.10 (E)—**Indian Languages:** W 02.30-03.00, 10.30-14.30. Sun 10.00-14.30—**N:** 02.45, 14.00—**Chinese:** Sun 09.00-10.30, Tues-Thurs 09.30-10.30. **ANN:** E: "This is Mauritius Broadc. Corpo". F: "Ici la M.B.S. poste de radiodiff. de l'Ile Maurice"—**INT-SIG:** Opening tune: "Brucker lagger march". Before N: "Cortege de Bacchus" from Sylvia Ballet by Delibes—**V.** by letter. Recordings accepted—**ALF:** 14 Rupees.

MOROCCO

L.T: GMT — **Pr.L:** Arabic, French, Spanish, English, Berber.

RADIODIFFUSION TÉLEVISION MAROCAINE (Gov.)

ADDR: 1 Rue Al Brihi, Rabat. **Tc:** 340-51. **Cable:** Radiomaroc. **L.P:** Chief Eng: B. Drissi.
HOME SCE: First Netw. (Chaine A):
Arabic: W exc. Fri 06.30-09.00, 12.00-24.00; Fri/Sun 06.30-24.00

	kHz	m	kW		kHz	m	kW
Oujda	593	505.9	100	Safi I	1025	292.7	1
Sebaa-Aioun I	611	491.0	140	Tetuan I	1052	285.2	20
Casablanca	818	366.7	1	Tanger II	1115	269.1	1
Rabat I	827	362.8	1	Tanger	1232	243.5	50
Agadir	935	320.9	100	B. Mellal	1343	223.4	0.25
Marrakech I	971	309.0	1				

FM: Rabat 92.1MHz 0.35kW. Casablanca 96.0MHz 0.25kW, Sebaa-Aioun 96.8MHz 1kW.
Short Waves: *Sebaa-Aioun, **Tangier.

On 7225kHz 41.52m 10kW: as above — On 9615kHz 31.20m 100kW: 19.00-22.00 to Mid. East — On ** 11735kHz 25.56m 50kW: 06.30-09.00, 12.00-18.30. On 15400kHz 19.48m 50kW: 06.30-09.00, 12.00-18.00(Fri & Sun 06.30-18.00) to We. Africa/Mauritania.

Second Netw. (Chaine B):
In English, French, Spanish: W 07.00-09.00, 12.00-15.00, 18.00-24.00; Sun 07.30-02.00.

	kHz	m	kW		kHz	m	kW
Sebaa-Aioun II	701	428.0	140	Rabat	1025	292.7	1
Oujda	827	362.8	100	Marrakech	1151	260.6	1
Tanger III	1016	295.3	1	Safi II	1322	226.9	1
Casablanca II	1025	292.7	1				

FM: Rabat 87.9MHz 0.35kW, Casablanca 90.0MHz 0.25kW, Sebaa-Aioun 93.6MHz 1kW.
Short Wave: Sebaa-Aioun 7115kHz 42.16m to So. Morocco.
French: W 07.00-08.30, 12.00-14.00, 18.00-23.00; Sun 07.30-10.00, 11.00-14.00, 15.00-23.00—**N:** 07.45, 13.00, 20.00, 22.45. **Spanish:** 08.30-09.00 (Sun 10.00-11.00), 14.00-15.00, 23.00-24.00—**N:** 08.30, 14.15, 23.00.

Third Netw. (Chaine C):
Berber: 07.00-09.00, 12.00-15.00, 17.00-23.00.

	kHz	m	kW		kHz	m	kW
Tetuan II	917	327.2	5	Casablanca III	1295	231.7	1
Sebaa-Aioun III	1043	287.6	25	Marrakech	1594	188.2	1
Rabat III	1295	231.7	1				

"Voice of Morocco": 1232kHz 243.5m 50kW: 09.30-18.00, 22.00-24.00 — **Arabic:** 09.30-14.00, 22.00-24.00 — **Spanish:** 14.00-16.00 — **French:** 16.00-18.00.

FOREIGN SERVICE: French, English, Ouolof: 18.30-23.30.

Sebaa-Aioun	6160kHz	48.70m	50kW:	To We. Af/Mauritania
Tangier	11735kHz	25.56m	50kW:	To We. Af/Mauritania
Tangier	15380kHz	19.51m	50kW:	To We. Af/Mauritania
Tangier	15410kHz	19.47m	10kW:	To So. Morocco

G.C: Sebaa-Aioun 05.24W/33.55N; Tangier I (15410kHz) 05.40W/35.45N; Tangier II (9615/11735/15380kHz) 05.58W/35.36N.

ANN: F: "Ici Rabat Radiodiff. Télévision Marocaine". E: "This is the Moroccan Broadc. and Television System Rabat". Sp: "Aqui Radiodiff. Televisión Maroqui". Voice of Morocco: **F:** "Ici Tanger la voix du Maroc" — **V.** by QSL-card. Recordings accepted. Rp. — **PUB:** Monthly magazine in Arabic — **F.PL:** 400kW LW-tr — **ALF:** DH 15, —

VOICE OF AMERICA RADIO STATION IN TANGIER

ADDR: Voice of America, Washington, D.C. 20547, USA.
STATIONS: (G.C: 05.56W/3541N): Tangier 35/50/100kW: 02.00-07.45, 12.00-24.00.

kHz	m	kHz	m	kHz	m	kHz	m
5955	50.38	9615	31.20	11960	25.08	15325	19.58
5965	50.29	9680	30.99	15195	19.74	17800	16.85
6045	49.63	9715	30.88	15205	19.73	17815	16.84
6125	48.98	9760	30.74	15245	19.68	17855	16.80
7105	42.22	11710	25.62	15270	19.65	21690	13.83
7160	41.90	11760	25.51	15295	19.62	25880	11.59
7220	41.55	11790	25.45	15310	19.60		
7270	41.27	11870	25.27	15315	19.59		

D.PRGR: See USA—**ANN:** "This is the Voice of America" is given in the language of the program and in English—**INT-SIG:** Theme of "Columbia, the Gem of the Ocean"—**V.** by QSL-card.

MOZAMBIQUE

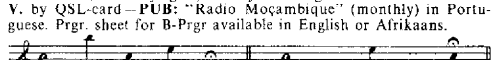
L.T: GMT + 2h — **Pr.L:** Portuguese, English, Afrikaans, Vernaculars.

RADIO CLUBE DE MOCAMBIQUE (Non-profit organisation)

ADDR: P.O. Box 594, Lourenço Marques. **Tc:** 4045. **Cable:** Radioclube—**L.P:** Pres: A. das Neves Conçalves. Executive Dir: H. A. da Silva Rodrigues. Gen. Mgr: V. Rodrigues. Chief Portuguese Section: J. Mendonça. Chief English Section: D. Davies.
STATIONS (G.C: 32.22E/25.95S):

kHz	m	kW	Prgr.	kHz	m	kW	Prgr.
737	407.1	50	A	4855	61.79	20	B
917	327.0	50	B	4865	61.66	25	*
1079	278.0	5	D	4925	60.90	25	A
1160	258.6	1	C	6050	49.59	25	B
1223	245.3	5	*	6115	49.06	10	A
1223	245.3	0.25	B	6180	48.54	7.5	B
1358	220.9	10	B	7195	41.70	100	*
3218	93.22	25	B	9620	31.19	10	B
3265	91.87	25	A	11780	25.47	7.5	B
3338	90.87	10	*	11820	25.38	25	A
3373	88.94	10	B	11845	25.33	100	*
4762	63.00	10	B	15295	19.61	25	A

FM: 98.01MHz 1kW (Prgr. C)—* = A Voz de Moçambique.
"A" PRGR. in Portuguese: 04.30-06.00 on 737/6115/11820kHz, 06.00-16.00 on 737/ 6115/11820/15295kHz, 16.00-16.30 on 737/6115/11820kHz, 16.30-18.00 on 737/4925/6115/11820kHz, 18.00-21.00 on 737/4925/11820kHz. **N:** 05.15, 08.30 (W), 10.30, 14.00, 17.30, 20.30.
"B" PRGR. in English/Afrikaans: 24 h. 03.00-04.00 on 917/3218 (to 03.45)/4855/11780kHz, 04.00-05.00 on 917/4855/6050/11780kHz, 05.00-07.00 on 4855/6050/11780kHz, 07.00-08.00 on 6050/11780kHz, 08.00-14.00 on 6050/9620/11780kHz, 14.00-15.00 on 6050/11780kHz, 15.00-18.00 on 917/1358/4855/6050/11780kHz, 18.00-19.00 on 917/1358/3218 (from 18.15)/4855/11780kHz, 19.00-22.00 on 917/1358/3218/4855kHz, 22.00-03.00 on 917/3218kHz.
Religious Sce: 04.30-05.15 (Sun) on 4762/6180kHz, 19.30-21.00 (Sat/Sun/Mon 20.45) on 3373/4762kHz.
"C" PRGR. in Portuguese: 09.00-12.00(Sun), 16.30(Sun 14.00)-20.00 on 1160kHz + FM—N (from A Prgr): 10.30 (Sun), 17.30—**Religious Sce (Mass):** W 16.00-16.30 on 1160/15295kHz + FM—**"Radio Universidade":** Sat 15.00-16.00, Sun 07.00-09.00 on 1160kHz + FM.
"D" PRGR in Portuguese: 04.30-06.00, 09.00-12.00, 15.30-20.00 on 1079kHz. **N.** (from A-Prgr): 05.15, 10.30, 17.30.
"A VOZ DE MOZAMBIQUE" in Ronga, Shangane: W 16.00-20.00 on 1223/3373/4865kHz; Sat 10.00-15.30 on 1223/4865kHz, 15.30-20.00 on 1223/3373/4865kHz; Sun 05.00-15.30 on 1223/4865kHz, 15.30-20.00 on 1223/3373/4865kHz.
In Ajaua, Nyanja, Swahili: 15.30-19.30 on 11845kHz (alternate freq. 7295kHz); Ajaua 15.30, Nyanja 16.30, Swahili 18.00.
ANN: "Aqui Portugal, Moçambique, fala-vos o R. Clube em Lourenço Marques transmite o seu programa . . . A, C, D". B.Prgr: 05.00-15.00: "This is the shortwave-sce. of Lourenço Marques Radio, Portugal, Moçambique, broadc. in the . . . . . m.b. and on mw for listeners in the Lourenço Marques area". 15.00-05.00: "This is the mw-sce. of Lourenço Marques Radio, Portugal, Moçambique on . . . ., broadc. also on sw in the . . . . m.b.'s".
INT-SIG: Prgr's A, C, D, "A Voz de Moçambique" and Regionals; Drum Beat/Orchestra" + 4 note gong. Pto. Amelia: 4 gong notes repeated 2 mins before the start of each transmission". B-Prgr: 2 gong notes each h, various jingles; identify in Portuguese 1 min before the h—**V.** by QSL-card—**PUB:** "Radio Moçambique" (monthly) in Portuguese. Prgr. sheet for B-Prgr available in English or Afrikaans.



F.PL: New Reg. st. at Dondo (near Beira) will commence tests approx. Mid 1969 with 2 × 10kW & 1 × 50mw-tr's; 2 × 10kW, 1 × 25kW & 1 × 100kW sw-tr's.

REGIONAL STATIONS:

Name	kHz	m	Name	kHz	m
Quelimane	935	320.9	Quelimane	4892	61.32
Nampula	*1223	245.2	Nampula	*4946	60.65
	1322	226.9		4958	60.51
Porto Amélia	1421	211.1	Quelimane	5020	59.76
Quelimane	3210	93.44	Nampula	7130	42.08
	**3310	90.63	Quelimane	7145	41.99
Nampula	*3355	89.42	Porto Amélia	7150	41.96
	3366	89.12	Nampula	7255	41.35
Porto Amélia	4875	61.54	Quelimane	7285	41.18

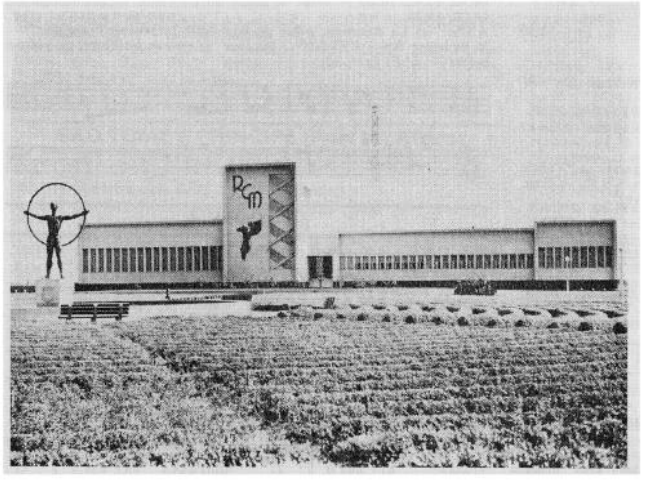
* = 10kW; others 0.25kW—** = at present inactive.
QUELIMANE: Portuguese: 10.15 (Sun 08.00)-12.00 on 935/4892/7145kHz, 16.00-19.30 (Sat/Sun 20.00) on 935/3210/4892kHz—**N:** 10.30*, 10.40, 17.30*, 17.40 (*relay L. Marques).
"A Voz de Mocambique": Chuabo: 05.00-06.00 (Sun) on 935/5020kHz, 10.00-11.00 (Sun) on 5020/7285kHz, 17.00-18.00 (Wed/Sat/Sun 19.00) on 5020kHz.
NAMPULA: Portuguese: 04.30-06.00, 09.30-12.00 (Sun 06.00-12.00) on 1223/4958/7255kHz, 16.00-20.30 on 1223/3366/4958kHz: 04.45-10.15, 17.15-20.15.
"A Voz de Moçambique" Macua: 10.30 (Sun 06.00)-12.00 on 1322/4946/7130kHz, 16.30-19.00 on 1322/3355/4946kHz.
PORTO AMELIA on 1421/4875/7150kHz: **Portuguese:** 05.30-07.00 (Sun), 10.30-12.00 (D), 16.00-19.00 (exc. Wed), 17.30-19.00 (Sun)—**N:** 10.30, 16.30—**"A Voz de Mocambique": Macua do Medo:** 09.30-10.30 (Sun), 16.30-19.00 (Wed), 16.00-17.30 (Sun).

RADIO PAX (Rel. owned by Franciscan Fathers)

ADDR: C.P. 594, Beira. **Tc:** 2763. **Cable:** Radio Pax—**L.P:** St. Mgr: Dr. M. Reis Miranda. Dir. Prgr: M. Carreira Neves.

AQUI PORTUGAL MOÇAMBIQUE

Rádio Clube de Moçambique



com os seus emissores em

– *Lourenço Marques*

– *Quelimane*

– *Nampula e*

– *Porto Amelia*

As emissões mais populares do Continente Africano.
Programas diários em Português, Inglês, Afrikaans e Dialectos Africanos.

Informaçoes detalhadas a páginas

STATIONS (G. C: 34.52E/18.49S).

kHz	m	kW	kHz	m	kW
1295	231.7	10	–*3960	75.76	5
1493	200.9	1	– 7205	41.64	10

FM: 90 & 95MHz 0.05kW –* =irr.
HOME SCE. in Portuguese, Vernaculars: W 04.00-05.30, 09.30-11.30, 14.00-21.00 (Sat 09.30-22.00); Sun 04.00-21.00—**N:** 04.45, 10.15, 17.30, 20.30.
ANN: "Aqui Beira, Moçambique, Provincia de Portugal em Africa transmite a R. Pax, Emissora Católica" — **V.** by QSL-card or letter.

EMISSORA DO AERO CLUBE DA BEIRA (Priv, Comm.)
ADDR: C.P. 3, Beira, **Te:** 2505. **Cable:** Aero. **L.P:** Dir: F. J. Silvério Moiteira.
STATIONS (G.C: 34.52E/18.49S): mw 5kW, sw 0.3kW.
1430kHz 210m — 3240kHz 92.59m — 7230kHz 41.49m.
HOME SCE. in Portuguese: 04.30 (Sun 05.00)-14.00 on 1430/7230kHz, 14.00-21.00 on 1430/3240kHz. **N:** 04.50 (W), 05.15 (Sun), 10.00, 17.45, 20.30—**Vernaculars:** 15.30-17.45 on 3240kHz—**Note:** During Football season comm. are carried on 3240kHz at 13.00-15.00 and 7230kHz (relaying 1430kHz) remains on the air until 15.30. **ANN:** "Aqui Portugal, Moçambique, fala-vos o Emissora do Acro Clube da Beira"—**INT-SIG:** Rapid Drum Beat/Folklore music and 3 note gong.

RADIO MOCIDADE (Private)
(Owned and operated by the Portuguese Youth Organisation).
ADDR: Lourenço Marques—**STATION:** 1457kHz 205.9m 0.5kW. Irregular transmissions.

NIGER (Republic)

L.T: GMT + 1 h — **Pr.L:** French, Vernaculars.

OFFICE DE RADIODIFFUSION—TELEVISION DU NIGER—O.R.T.N. (Gov).
ADDR: B.P.361, Niamey. **Cable:** ORTN. **Te:** 2272 — **L.P:** Dir. B. Lucas. Dir. Tec: M. Andrieux. Asst. Dir: G. Sidikou.
STATIONS (G.C: 02.06E/12.30N):

kHz	m	kW	Netw	kHz	m	kW	Netw
1250	240.0	0.1	IV	9585	31.30	4	I/III
1570	191.1	1	I	11785	25.46	4	II
3260	92.02	4	I	11875	25.26	30	II
5020	59.76	4	II				

HOME SCE: Netw. I: W 05.30-06.30 on 1570/3260kHz, 11.30-13.30 on 1570/9585kHz, 17.00-22.00 (Sat 15.00-23.00) on 1570/3260kHz. Sun 07.00-16.30 on 1570/9585kHz, 16.30-22.00 on 1570/3260kHz.
Netw. II: W 05.30-06.30 on 5020kHz, 11.30-13.30 on 11785/11875kHz, 17.00-22.00(Sat 15.00-23.00) on 5020kHz.
N. in French: 06.00(W), 09.00(Sun), 12.00, 17.00(W), 18.45, 21.50
English: Wed, Sat 17.15 — **LL** (English): Mon, Tues, Thurs, Fri 17.15.
Netw. III: W 06.30-11.30 on 9585kHz. **N. in French:** 07.30, 09.30 10.30.
Netw. IV: W 17.00-22.00 (Sat 23.00) on 1250kHz. **N. in French:** 09.00 (Sun), 12.00(Sun), 17.00(W), 18.45, 21.50.
Vernaculars: Netw. I: 12.20, 18.00(Djerma), 17.45(Peulh), 12.30 (Tamachek); Netw. II: 12.30, 18.00(Hausa), 17.30(Béri-béri); Netw. III: 09.05, 10.35(Djerma), 09.10, 10.40(Hausa).
ANN: At opening and close down "La Nigerienne". Local flute and "Ici Niamey, Office de Radiodiff-Télévision du Niger" — **INT-SIG:** Local Flute.

V. by QSL-card. Recordings accepted — **PUB:** Prgr. schedule (weekly).

NIGERIA (Republic of)

L.T: GMT + 1 h — **Pr.L:** English, Yoruba, Hausa, Ibo.

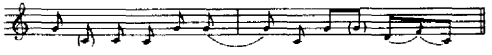
THE NIGERIAN BROADCASTING CORPORATION
(Statutory Corporation).
ADDR: Broadcasting House, Lagos, **Te:** 26411. **Cable:** Broadcast. **L.P:** Dir. Gen: E. V. Badejo. Dir. Tec: D. M. T. Oke. Dir. External Sce: Chinua Achebe. Dir. Prgr: Y. Olumide.
NATIONAL PRGR (from Lagos):
1088kHz 275.7 m 20kW: 04.30-22.30 Sat 23.00).
3986kHz 75.27m 100kW: 04.30-07.03, 14.30-22.30 (Sat 23.00)
4990kHz 60.12m 20kW: as 1088kHz.
7255kHz 41.35m 10kW: 06.00-18.15
NEWS: English 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00 (exc. Fri), 12.30 (Fri), 13.00, 14.00, 15.00, 16.00, 17.00 (Sat), 18.00, 19.00, 20.00, 21.00, 22.00. **Efik, Ijaw:** 15.45 (Mon-Fri), 13.45, (Sat), 16.45 (Sun).
Hausa, Ibo, Yoruba: 17.00 (exc. Sat), 17.15 (Sat).
WEST REG. PRGR (Ibadan)
1358kHz 220.9m 10kW: 04.30-22.30 (Sat 23.00).
1397kHz 214.7m 0.25kW: 04.30-22.30 (Sat 23.00).
3204kHz 93.65m 10kW: 04.30-22.30 (Sat 23.00).
N: English, Yoruba: W 05.35, 14.30, 19.00.
Fulani, Kanuri, Yoruba, Tiv: W 16.00.
MID-WEST REG. PRGR (Benin).
638kHz 470.2m 5kW: 05.00-10.03, 14.00-21.03.
1397kHz 214.7m 0.25kW: 05.00-10.03, 14.00-21.03.
4932kHz 60.83m 10kW: 05.00-10.03, 14.00-21.03.
N: English: 05.00, 06.00, 07.00, 09.00, 10.00, 14.00, 15.00, 16.00, 17.00 18.00, 20.00. **English/Edo/Urhoho/Mid-West Ibo:** 14.30 (W), 19.00 (W). **Hausa, Ibo, Yoruba:** 17.03 (Sat 15.15).

Nigeria-Sahara

NORTH REG. PRGR (Kaduna).
1416kHz 211.9m 1 kW: 04.40-22.30 (Sat 23.15).
1376kHz 218.0m 1 kW: 04.40-22.30 (Sat 23.15).
1397kHz 214.7m 0.25 kW: 04.40-22.30 (Sat 23.15).
3326kHz 90.20m 7.5 kW: 04.40-08.03, 16.30-22.30 (Sat 23.15).
6175kHz 48.58m 20 kW: 04.40-22.30 (Sat 23.15).
9655kHz 31.07m 10 kW: 07.00-18.15.
N: Hausa/English: 05.35 (W), 14.00 (W), 19.00 (exc. Sat/Sun).
Obs: All Reg. St's relay National N. at 06.00, 12.00 (exc. Fri), 12.30 (Fri), 15.00, 18.00, 20.00

ENUGU (Central Eastern State).
1320kHz 227.3m 1 kW 6035kHz 49.71m 10 kW
3980kHz 75.38m 10 kW
G.C: Lagos -03.21E/06.34N, Ikorodu (100kW): 03.56E/07.23N—Ibadan 03.54E/07.23N—Enugu 07.27E/06.27N—Kaduna 07.25E/10.31N.

ANN: Nat Prgr: "This is the National Prgr. of R. Nigeria" or "This is the Commercial Sce. of R. Nigeria" or "This is the N.B.C. — Reg. Pgr's: "This is R. Nigeria in . . . (name of region town)".
INT-SIG: National prgr: Talking Drum.



V. by QSL-card. Re. will be welcomed by Chief Engineer—**PUB:** Monthly: Transmission schedules are distributed free of charge. The Nigerian Radio Times available on a subscription basis.

EXTERNAL SERVICES

Stations: Lagos (Ikorodu) 100kW.

kHz	m	kHz	m	kHz	m	kHz	m
7275	41.24	11770	25.49	15255	19.66	21455	13.98
9690	30.96						

I = We. Africa; II = Europe; III Middle East; IV - We. & Ce. Africa; V = Ea. Africa; VI = No. Africa.

English	Area	kHz	Beam	French	Area	kHz	Beam
05.45-07.30	I	7275	nd	13.00-14.00	IV	11770	nd
	II	15255	05°		V	21455	125°
	III	21455	65°	19.00-21.00	I	7275	nd
15.28-16.28	I	7275	nd		IV	9690	nd
	IV	9690*	nd		IV	11770	nd
	II	15255	05°		II	15255	05°
	V	21455	125°				
17.28-19.28	I	7275	nd	**Hausa**			
	IV	11770	nd	14.00-15.00	I	7275	nd
	II	15255	05°		I	9690	nd
	V	21455	125°		I	11770	nd
21.00-22.00	I	7275	nd		IV	15255	nd
	IV	9690	nd				
	I	11770	nd	**Arabic**			
	II	15255	05°	16.30-17.28	I	7275	nd
French					VI	15255	05°
13.00-14.00	I	7275	nd		III	21455	65°
	IV	9690	nd				

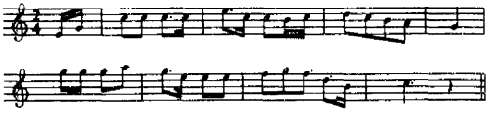
* - carrying English prgr. 15.28-17.28.
NEWS: English: 06.00, 07.00, 15.30, 16.30, 18.30, 19.25, 21.00, 21.55. **French:** 13.30, 19.30. **Hausa:** 14:30. **Arabic** 16.30.
INT-SIG: Bells opens broadcast at 12.50 followed by Int-Sig. as for Nat. Prgr. accompanied by rapid drum beating. Sign off with Nat. Anthem—**V.** by QSL-card. Re. will be welcomed by Chief Engineer—**PUB:** Monthly: Transmission schedules are distributed free of charge. The Nigerian Radio Times available on subscription basis.

RADIO TELEVISION KADUNA (Comm.)
ADDR: P.O. Box 250, Kaduna, No. Nigeria. **Cable:** Radionorth. **Te:** 2294—**L.P:** Gen. Mgr: A. Zoru. Chief Eng: G. White.
STATIONS: (G.C: 07.33E/10.50N): 593kHz 505.9m 10/250kW—6090kHz 49.26m 10 kW.
HOME SCE. in English, Hausa: 05.00-22.00 on 593/6090kHz—**N: English:** 05.30, 11.30, 14.00, 17.00, 18.45, 21.30. **Hausa:** 06.00, 12.30, 15.30, 18.30, 21.35—**ANN:** "This is R. Television Kaduna"—**INT-SIG:** Bauchi Drums — **V.** by letter. Recordings accepted — **FI:** By comm. but subsidised.

WESTERN NIGERIA RADIOVISION SERVICE (Comm.)
ADDR: P.O. Box 1460, Ibadan. **Cable:** Radvision. **Te:** 24381 — **L.P:** Man. Dir: J. O. Oyeleye. Ag. Dir. Tec: R. O. Ifidon. Contr. of Prgr's: A. Ogunlade. Comm. Mgr: K. Olasope.
STATIONS (G.C: 03.55E/07.23.5N): *Abafon: Others Ibadan.
*602kHz 498.4m 10kW — 656kHz 457.3m 10kW
3380kHz 88.70m 10kW — 6050kHz 49.59m 10kW
HOME SCE: W 05.00-23.05; Sun 06.00-22.05
On 3380kHz: 05.00-07.15 (Sun 06.00-07.30) and from 16.40. On 6050kHz: 07.15 (Sun 07.30)-16.40 — **N. in English:** 05.10(W), 06.00, 07.00(BBC), 07.10 (African), 12.00, 17.00, 20.00. Also short N every h at 09.00 23.00 **N. in Yoruba, Edo, Hausa:** 08.00, 19.00 — **ANN:** "This is the Western Nigeria Broadc. Sce" or "This is WNBS, Ibadan" — **INT-SIG:** Chimes - 2 notes only (G & E) — **V.** by QSL-card or letter. Re. to Chief Eng.

REUNION (French)

L.T: GMT + 4 h — **Pr.L:** French.
OFFICE DE RADIODIFF—TELEVISION FRANCAISE (ORTF)
ADDR: B.P. 309, St. Denis, La Réunion. **Te:** 868 — **L.P:** Chef des Sces: R. Villeneuve. Dir. N: J. V. Dolor.
STATIONS (G.C: 55.30E/20.55S):
665kHz 451.2m 8kW: 02.30-18.30
2446kHz 122.76m 4kW: 02.30-05.00, 14.00-18.30
3250kHz 92.31m 1.5kW: 02.30-18.30
4807kHz 62.41m 4kW: 02.30-18.30
7245kHz 41.41m 4kW: 05.00-14.00
HOME SCE. in French: W 02.30-18.30; Sun 03.00-18.30 — **N:** W 02.30, 03.00, 03.30, 04.00, 08.30, 14.00, 15.45, 18.00; Sun 04.00, 08.30, 13.45, 18.00 — **Wrp:** W 02.59, 03.59, 14.07, 15.35; Sun 03.59, 14.00, 15.35.
ANN: "Ici La Réunion, office de Radiodiff-Télévision Française" — **V.** by letter. Rp — **INT-SIG:** "Madina" (Reunion Folklore) played on guitar — **ALF:** Frcs. 30.



RHODESIA

L.T: GMT + 2 h — **Pr.L:** English, Shona, Sindebele.
RHODESIA BROADCASTING CORPORATION
(Indep. Statutory Body, established by Rhodesia Act of Parliament).
ADDR: P.O. Box 2696, Salisbury. **Cable:** Broadcasts. **Te:** 25685—**L.P:** Chmn. of Board: J. M. Helliwell. Dir. Gen: J. C. Neill. Dep. Dir. Gen: B. J. Gilbert. Dir. African Sce: B. A. J. Baker. English Sces: J. Baldwin. Chief Eng: J. Grahame. M.I.E.R.E. Head News Sce: H. G. Ward. Mgr. Comm. Sce: M. M. Gaven.
STATIONS: G = General & Comm. Sces; A = African & African Comm. Sces.
RC = Regional Comm. Sce.
Medium Waves:

	kHz	m	kW	Sce		kHz	m	kW	Sce
Salisbury	584	513.7	2	G	Que Que	1367	219.5	1	G
Gwelo	611	491.0	2	G	Bulawayo	683	439.2	2	G
Gwelo	710	422.0	2	A	Gatooma	791	379.3	1	G
Ft.					Umtali	980	306.1	1	G
Victoria	855	350.9	1	G	Bulawayo	1340	223.9	2	A
Salisbury	890	337.1	2	A	Salisbury	1255	239.0	1	RC

Short Waves:

kHz	m	kW	Sce	kHz	m	kW	Sce
3306	90.73	10	A	6020	49.83	20	G
3396	88.36	20	G	7175	41.81	10	A
5975	50.21	10	A	7285	41.18	20	G

HOME SCE: General Sce: 03.55-05.40 (W) on 3396kHz, 05.40 (Sun 05.30)-17.15 on 7285kHz, 17.15-21.00 (Sat 22.00, Sun 20.05) on 3396kHz. **N. in English:** 04.00, 05.00, 06.00 (SABC), 04.00 (W), 05.00 (W), 06.00 (SABC), 11.00, 16.00, 17.45.
African Sce: 03.30-05.20 (W) on 3306kHz, 05.20 (Sun 05.30)-16.30 on 7175kHz, 16.30-20.05 (Sat 22.00, Sun 20.00) on 3306kHz.
N. in English: 04.00 (W), 06.00 (Sun), 11.00, 16.00, 17.45.
ANN: E: "This is the Rhodesia Broadc. Corpo"—**INT-SIG:** 5 mins prior to opening English Sce. peal of Church Bells; 5 mins prior to opening African Sce, Kalimba Xylophone, drums. **V.** by QSL-card — **FI:** By Gov, license payments, adv — **ALF:** £6 (radio + TV), £2 (radio only).

RWANDA (Republic of)

L.T: GMT + 2 h — **Pr.L:** Kinyarwanda, Swahili, French.
RADIODIFFUSION DE LA REPUBLIQUE RWANDAISE (Gov)
ADDR: B.P. 83, Kigali. **Te:** 5735. **Cable:** Radiorwanda — **L.P:** Dir. Gen: N. Buregeya.
STATION (G.C: 30.04E/01.57S): 6055kHz 49.55m 50kW.
HOME SCE. in Kinyarwanda, Swahili, French: 03.30-06.00, 09.00-12.00 (Sat/Sun 13.30), 13.30-21.00.
N. in French: 04.30, 05.30, 11.15, 18.00, 20.00. **N. in Kinyarwanda:** 04.00, 05.00, 10.45, 16.00, 17.00. **N. in Swahili:** 03.35, 14.45 — **Int. Prgr in French, Swahili, English:** W 09.45-10.45.
ANN: "Ici Kigali, Station Nationale de Radiodiff. de la République Rwandaise" — **INT-SIG:** Inanga (local harp) — **V.** by QSL-card. Rp. Recordings accepted — **PUB:** Prgr. schedule free — **ALF:** 100 Frs Rw (1 US $).
DEUTSCHE WELLE RELAY STATION AFRICA
ADDR: Kigali—**STATIONS:** One tr. 250kW (G.C: 30.07E/01.53S)

kHz	m	kHz	m	kHz	m	kHz	m
9565	31.36	11785	25.46	11905	25.20	15380	19.50
9735	30.82	11795	25.43	15435	19.44	17765	16.89

D.PRGR. 03.00-03.30 & 03.45-05.30 on 9565kHz, 05.45-07.45 on 11905kHz, 10.45-11.45 on 11785kHz, 12.00-14.00 on 17765kHz, 14.15-14.45 on 15435kHz, 15.00-17.30 on 9735kHz, 17.45-20.15 on 17765kHz, 20.30-23.30 on 15380kHz.
English: 04.30-05.00, 05.45-06.30, 10.45-11.00, 12.00-12.45, 16.45-17.30, 17.45-18.45. **German:** 20.30-23.30, 00.00-03.00.

SAHARA (Spanish)

L.T: GMT—**Pr.L:** Spanish, Vernaculars, Hasania.
RADIO SAHARA (Gov.)
ADDR: Apartado 7, Aaiun—**L.P:** Dir: J. Sahonero Diaz. Dir. Prgr's & Adm: S. Valdueza Ayala.
STATION: EAJ203 645kHz 465.1m 50kW (varying).

HOME SCE: 09.00-13.00, 20.00-24.00. **Spanish:** 10.00-13.00, 21.00-24.00 N (RNE): 11.00, 12.00, 21.00 — **Hasania:** 09.00-10.00, 20.00-21.00.
ANN: "Habla R. Sahara, Emisora EAJ203" — **V.** by QSL-card and letter. Recordings accepted.

RADIO VILLA CISNEROS (Gov.)
ADDR: Apt. 60, Villa Cisneros **L.P:** Dir: E. Ponce Ramos — **STATION:** EAJ202 998kHz 300.6m 10kW.
HOME SCE: 19.00-22.00. **N.** (relay RNE): 19.00, 21.00 — **Wrp:** 19.04 — **Educ. Prgr:** 19.05 — **ANN:** "Transmite R. Villa Cisneros EAJ202 diez kW" — **V.** by letter.

SAO TOME E PRINCIPE (Port W. Africa)

L.T: GMT — **Pr.L:** Portuguese.

RADIO CLUBE DE SÃO TOME (Comm.)
ADDR: Av. Infante D. Henrique, C.P. 44, São Tomé. **Te:** 530 — **L.P:** Pres: C. A. Ferreira Dias.
STATIONS: 760kHz 394.7m 5kW — 4807kHz 62.41m 1kW.
HOME SCE: W 06.00-07.30, 12.00-14.00, 17.00-21.00 on 760/4807.5 kHz, 21.00-22.30 on 760kHz. Sun 08.00-22.30 — **N:** 06.45, 12.30, 19.30, 22.15 — **Mbg** (DX-QSL): Sat 20.00 (fortnightly)
ANN: "Aqui Portugal, Provincia de S. Tomé e Principe, fala-vos o R. Clube de S. Tomé transmitindo na . . ." — **V.** by QSL-card. Rp.

FOREIGN SCE: "A Voz do Occidente" (The Voice of the West): 21.00-22.30 on 4807kHz (relay Emissora Nacional): French 21.00-21.45 & English 21.45-22.30 (directed to Gulf of Guinea area) — **ALF:** 100 Escudos.

SENEGAL (Republic)

L.T: GMT — **Pr.L:** French, Oulof, Sérére, Toucouleur, Portuguese.

RADIODIFFUSION DU SENEGAL (Gov.)
ADDR: B.P. 1765, Dakar. **Te:** 32072. **Cable:** Radio Sénégal. Dir. Gen: A. Fall. Dir. Tec: M. M'Baye.
STATIONS (G.C: 17.26W) 14.39N):

kHz	m	kW	Netw.	kHz	m	kW	Netw.
764	392.7	200	II	9720	30.86	25	II
1538	195.1	10	I	9720	30.86	100	I
4890	61.35	25	II	15115	19.85	100	I
7210	41.61	4	I				

R. SENEGAL-INTER: 06.00-24.00 on 1538kHz; On 7210kHz: 10.00-18.00; To We & Ce. Africa: 06.00-10.00 on 9720kHz (100kW), 10.00-24.00 on 15115kHz. **Portuguese:** 18.00-18.20. **Arabic:** 18.20-18.40; **English:** 18.40-19.00.
R. SENEGAL II: 06.00-24.00.
On 764kHz: as above. On 4890kHz. 06.00-10.00, 18.00-24.00; On 9720kHz: 10.00-18.00.
N. in French (R. Sénégal I + II): W 07.00, 07.55, 12.00, 13.00, 13.55, 19.00, 20.00, 22.15, 23.55; Sun 08.30, 13.00, 19.00, 20.00, 22.15, 23.55.
Reg. st's: St-Louis (Sénégal III) 1484kHz 202.2m 1kW: W06.00-08.00, 12.00-14.00, 18.15-22.30.
Ziguinchor (Sénégal IV) (G.C: 16.16W/12.36N):
3336kHz 88.89m 4kW — 6070kHz 49.42m 4kW.
12.00-14.00, 18.00-21.30 on 3336kHz; Sat/Sun 17.30-21.30 on 3336/6070kHz.
Kaolack (Sénégal V) on 1286kHz 233m: 06.00-08.00, 12.00-14.00, 18.00-22.30.
ANN: F: "Ici Sénégal-Inter émettant de Dakar sur . . ." — "Ici Sénégal II, Chaine Nationale, émettant de Dakar". E: "This is the English prgr of the International Sce. of the Sénégalese Broadc. System" — **INT-SIG:** Melody on "Khora" (local harp). **V.** by QSL-card. Rp.

SEYCHELLES (British)

L.T: GMT + 4 h — **Pr.L:** English, French, Creole.

RADIO SEYCHELLES
ADDR: Dept. of Inf. & Broadc., P.O. Box 92, Victoria. **Te:** 447.
L.P: Mgr: E. C. Passmore CBE, AMIEE.
STATION: ZCQ3 1331kHz 1kW — **HOME SCE:** 07.30-08.45 (W), 14.00-17.00. **N: English** (local) W. 14.15, Sat 16.15; BBC: 16.00. **Creole:** W 16.15 (Sat after local N in English) — **ANN:** E: "This is R. Seycheelles" — **PUB:** Prgr. schedule free.

SIERRA LEONE

L.T: GMT — **Pr.L:** English, Mende, Temne, Krio.

RADIO SIERRA LEONE (Gov.)
ADDR: New England, Freetown. **Te:** 4711. **Cable:** Broadcast. **L.P:** Dir. & Chief Eng: P. F. George.
STATIONS (G.C: 13.14W/08.30N): 1205kHz 249.0m 10kW — 3316 kHz 90.46m 5/10kW — 5980kHz 50.17m 0.5kW.
HOME SCE: Mon-Fri: 06.00-10.15, 12.00-13.30, 15.45-23.05; Sat: 06.00-10.15, 12.00-23.05; Sun: 06.00-09.30, 12.00-23.05. **N. in English:** 07.00(BBC), 17.00(R. Moscow), 18.00(VOA), 20.00(BBC). **Nat. N:** 06.40 (Vernaculars, English), 20.10 (English-Vernaculars). 22.00 (English) — **African Magazine:** Fri 21.00.
ANN: "This is R. Sierra Leone" — **INT-SIG:** "The rain is coming" played by Military band — **V.** by letter. **ALF:** Le 3.00.

SOMALI (Rep.)

L.T: GMT + 3 h — **Pr.L:** Somali, Arabic, Italian, Swahili, English.

NATIONAL BROADCASTING STATION (Gov.)
ADDR: Voice of the Somali Republic, Mogadiscio. **Te:** 444.
STATIONS (G.C: 45.06E/02.06N):
6105kHz 49.14m 50kW — 9590kHz 31.28m 5kW (6105 reported on 6095kHz).
HOME SCE: 03.00-05.00, 09.30-11.30, 12.00-15.30, 16.30-19.00. **Somali:** 03.00-03.15, 03.30-03.45, 04.00-05.00, 08.00-11.30, 12.00-15.00, 16.30-17.30, 18.45-19.00. **N:** 03.30, 08.10, 10.00, 13.00, 17.00, 18.50 — **English:** 03.15-03.30, 17.30-18.00. **N:** 03.15, 17.30 — **Arabic:** 03.45-04.00, 17.00-17.30. **N:** 03.45, 17.00 — **Italian:** 10.45-11.00, 18.30-18.45. **N:** 10.45, 18.30 — **Swahili:** 15.00-15.30. **N:** 15.10 — **ANN:** "Halkan wa Mogadiscio, the Voice of the Somali Republic". I: "Qui parla la R. Mogadiscio, la voce della Repubblica Somala" — **INT-SIG:** Guitar — **V.** by QSL-card.

RADIO SOMALI (Gov.)
ADDR: Reg. Information Office, P.O. Box 14, Hargeisa. **Te:** 155.
STATIONS (G.C: 44.03E/09.33N):
7120kHz 42.13m 10kW — 11675kHz 25.70m 5kW.
HOME SCE. in Somali: 09.00-09.30 (Fri only), 11.00-13.30, 15.00-16.30. **N. in Somali:** 12.00, 15.30 — **ANN:** "Halkani Wa R. Hargeisa, Odki Gamhoriyada Somalida" — **INT-SIG:** March — **V.** by QSL-card.

SOUTH AFRICA (Republic)

L.T: GMT + 2h — **Pr.L:** English, Afrikaans, Bantu (S. Sotho, Zulu, Tswana, Xhosa, N. Sotho, Venda, Tsonga).

SOUTH AFRICAN BROADCASTING CORPORATION
ADDR: P.O. Box 8606, Johannesburg. **Cable:** Broadcast. **Te:** 231151 — **L.P:** Chmn of the Board of Governors: Dr. P. J. Meyer. Dir. Management: J. N. Swanepoel. Dir. Prgr's: C. D. Fuchs. Chief Eng: H. O. Collett. Asst. Dir, Gen. Sces: P. J. Bothma. Asst. Dir, Bantu & External Sces: S. M. de Villiers. Asst. Dir. Springbok Radio & Special FM Sces: H. J. Howell. Asst. Dir. Adm: G. A. de Bruyn. Asst. Dir. Personnel: G. J. Yssel. Asst. Dir. News: J. E. van Zyl. Asst. Dir. English & Afrikaans Sces: Dr. J. H. T. Schutte. Chief Architect: L. Durston. Chief Accountant: F. R. Nixon. Head Music: A. C. Hartman. Head External Sces: J. A. Jooste. Head Public Rel: N. J. Naudé. Head Stores Supplies: R. B. Wilkins. Asst. Chief Eng Tr's: F. F. Velleman. Asst. Chief Eng. Studios: D. H. Mills. Head, English Sce: A. H. Falkiner. Head, Afrikaans Sce: P. F. M. de Bruyn. Head, Nguni Sces: B. J. Steyn. Head, Sotho Sces: T. van Heerden. Head, Costing, Audit & Data Processing: E. von H. E. Mischke. Head, Advertising Sces: J. G. C. Siebert. Head, News Sce: T. Greyling.
HOME SERVICES: National Medium-Waves: 0.25/2/5/10kW.

	kW	English kHz	Afrikaans kHz	Comm kHz
Johannesburg				
West Rand	5	638	719	575
East Rand	5	1034	827	1286
Pretoria	2	1439	1097	1268
Bloemfontein	5	674	593	782
Kimberley	0.25	1070	1241	962
Grahamstown	5	620	701	809
Port Elizabeth	2	1313	1043	1178
East London	2	683	791	602
Cape Town	10	656	557	728
Durban	5	566	692	800
Pietermaritzburg	5	764	665	845
Pietersburg	5	1115	863	989

FM-SERVICES:

	kW	English MHz	Afrikaans MHz	Springbok MHz	Reg. Comm. MHz
Johannesburg	10	95.51	103.42	99.47	87.60a
Welverdiend	3	93.71	89.75	97.66	107.9a
Rustenburg	3	102.99	106.95	95.08	—
Pretoria	5*	88.98	96.89	92.93	90.01a
Durban/Pietermaritzburg	10	90.01	105.83	93.96	101.9c
Constantiaberg	3	89.49	105.32	97.40	101.36b
Table Mountain	0.25	106.69	102.74	90.87	98.78b
Port Shepstone	3	102.65	90.78	98.69	94.74c
Cala	0.8**	95.86	103.72	99.81	—
Umtata	0.8**	97.66	93.71	89.75	—
Port Elizabeth	3	103.51	99.55	87.69	95.60b
Grahamstown	3	93.45	101.36	89.49	97.41b
Keiskammahoek	3	100.59	92.67	104.54	96.63b
East London	3	107.12	95.25	91.30	99.21b
Bloemfontein	3	103.94	88.12	96.03	107.90a
Theunissen	3	103.17	99.21	107.12	95.25a
Napier	3	99.21	95.25	103.17	107.12b
Butterworth	3	102.39	98.44	106.35	—
Kroonstad	3	90.52	94.48	102.39	98.44a
Greytown	3	107.21	103.25	91.38	99.30c
Kimberley	3	106.09	102.13	98.18	94.23a
Piketberg	3	99.81	95.86	107.72	91.90b
Piet Retief	3	89.84	93.79	101.70	—
Vryheid	3	102.48	98.52	94.57	—
Villiersdorp	3	94.48	102.39	90.52	98.44b
Queenstown	3	94.05	90.09	101.96	—
Middelburg (Tvl)	3	90.78	106.61	94.74	—
Eshowe	3	105.06	101.10	89.23	97.15c
Boesmanskop	3	104.37	92.50	88.55	—
Ladybrand	3	89.92	101.79	105.75	—
The Brook	3	95.17	91.21	99.12	—

South Africa

FM-SERVICES:

	kW	English MHz	Afrikaans MHz	Springbok MHz	Reg. Comm. MHz
Davel	3	93.36	89.41	97.32	
Mooiriver	3	105.40	97.49	89.58	101.45c
Senekal	3	101.02	97.06	93.10	-
Riversdale	3	104.20	96.29	92.33	-
Volksrust	3	95.94	91.99	99.90	
Bedford	3	102.74	98.78	94.82	-
Mount Ayliff	3	92.93	88.98	96.89	-
Nelspruit	3	90.44	102.31	94.39	
Potgietersrust	3	103.25	95.34	107.21	-
Zeerust	3	89.32	105.14	93.28	-
George	3	102.05	106.01	90.18	
Sea Point	0.05	101.97	98.01	105.92	94.05
Beaufort West	3	104.46	92.59	100.50	-
Aliwal North	3	89.32	101.19	93.28	-
Dullstroom	3	88.63	104.46	92.59	-
Bethlehem	3	94.91	98.87	106.78	
Paarl	0.25	104.56	100.59	88.72	96.63b
Fort Mistake	3	100.67	104.63	96.72	-
Durban North	0.25	87.86	107.64	91.81	99.73c
Matjiesfontein	3	101.62	93.71	105.57	-
Cradock	3	96.20	92.24	88.29	-
Noupoort	3	93.62	105.49	97.58	-
Simonstown	0.02	92.07	88.12	96.03	103.94
Karcedouw	3	105.66	101.71	89.84	93.80b
Graaf-Reinet	3	98.35	94.40	102.31	—
Louis Trichardt	3	96.37	88.46	100.33	-

* Reg. Comm. Sce. 0.8kW — ** Springbok R. 3kW.

National Shortwave Stations (Paradys) 20kW (G.C: 26.13E/29.13S):

English kHz	m	Afrikaans kHz	m	Comm. Sce. kHz	m
2326	129.0	2346	127.9	2376	126.3
3285	91.32	3320	90.36	3250	92.31
3965	75.66	3952	75.91	3997	75.05
4965	60.42	4875	61.54	4945	60.67
7260	41.32	7230	41.49	7195	41.70
9680	30.99	9650	31.09	9720	30.86
11840	25.34	11760	25.51	11865	25.28

Wave bands in use and times of operation on various freq's are changed to suit propagation conditions.

INTERNAL SHORTWAVE SCHEDULE

3/11 68 — 1/3 69

All freq's in kHz.

Times	English	Afrikaans	Comm. Sce.
04.30-05.00	3965, 4965	3952, 4875	3997, 4945
05.00-07.30	9680, 4965	9650, 4875	9720, 4945
07.30-15.00	9680, 11840	9650, 11760	9720, 11865
15.00-17.30	9680, 4965	9650, 4875	9720, 4945
17.30-21.30	3965, 4965	3952, 4875	3997, 4945

2/3 69 — 3/5 69

04.30-05.00	3285, 3965	3320, 3952	3250, 3997
05.00-07.30	7260, 3965	7230, 3952	7195, 3997
07.30-16.30	7260, 9680	7230, 9650	7195, 9720
16.30-18.00	3965, 7260	3952, 7230	3997, 7195
18.00-21.30	3285, 3965	3320, 3952	3250, 3997

All Night Sce: 22.00-03.00 on 3997, 4945kHz (from 2/3 69 on 3250, 3997kHz).

English Sce: W 04.30-21.30 (Sat 22.05), Sun 05.00-21.30. **N:** 05.00 (W), 06.00, 09.00 (W), 11.15, 14.00 (W), 16.00, 17.00 (W), 19.00, 21.00. **Reg. N:** 11.25 (W), 17.10 (W). **Greek:** Sun 08.00-08.20. **Portuguese:** Sun 08.20-08.40. **Indian Prgr:** (in English) on 566/764kHz: Sat 11.45-12.00, Sun 06.30-07.30.

Afrikaans Sce: W 04.30-21.30 (Sat 22.05), Sun 05.00-21.30. **N:** 04.45 (W), 06.00, 09.00 (W), 11.15, 14.00 (W), 16.00, 17.00 (W), 19.00, 21.00. **Reg. N:** 11.25 (W), 17.10 (W). **German:** Mon 20.20-20.40. **Italian:** Mon 20.40-21.00.

Springbok Radio (Comm. Sce) in English, Afrikaans: 03.00 (Sun 04.00)-22.00. **N: English:** 04.30 (W), 05.00 (Sun), 05.30 (W), 09.29 (W), 11.00, 14.29 (W), 17.00 (W), 20.30 (W). **Afrikaans:** 03.45 (W), 06.30 (Sun), 19.30 (Sun).

Reg. Comm. Sce. in English, Afrikaans: 03.00 (Sun 04.00)-22.00 (a) R. Highveld (b) R. Good Hope (c) R. Port Natal — **N: English:** 05.00, 07.00, 09.00, 11.00, 13.00, 15.00, 17.00, 19.00, 21.00, **Afrikaans:** 04.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 20.00.

R. South Africa All Night Sce. (Comm.) in English, Afrikaans: D 22.00-03.00 (Sun 04.00) **N. English:** 02.45, **Afrikaans:** 22.01 on all Reg. Comm. Sce. FM fqs. and also on all mw & FM st's of Springbok Radio.

Special tr: Market reports and meat prices: (W) 16.05-16.40 on 6075, 7185kHz (Afrikaans: Mon/Wed/Fri, English: Tues/Thurs/Sat).

ANN: E: "This is the English Sce. of R. South Africa". Afrikaans: "Dit is die Afrikaans diens van R. Suid-Afrika". Springbok R: E: "This is the National Netw. of Springbok R, your st. for brighter broadc".

INT-SIG: English Sce: Dove-Call. Afrikaans Sce: Musical Box "Ver in die Wêreld Kittie" at 04.28 (on sw) followed by Dove-Call. Springbok R. opens and closes with an orchestral arrangement of the folk tune "Vat you goed en trek Ferreira": Gong.

RADIO BANTU (FM Sce. in Vernaculars):

So. Sotho	kW	MHz	So. Sotho	kW	MHz
Johannesburg	10	91.56	Ladybrand	3	93.88
Welverdiend	3	101.62	Senekal	3	89.15
Bloemfontein	10	92.07	Rustenburg	3	*99.04
Theunissen	3	91.30	Pretoria	3	*100.84
Kroonstad	3	106.35	Aliwal North	3	105.14
Boesmanskop	3	100.41	Bethlehem	3	102.82

Tswana	kW	MHz	Zulu	kW	MHz
Welverdiend	3	105.57	Volksrust	3	88.03
Rustenburg	3	99.04	Nelspruit	3	98.35
Pretoria	5	100.84	Fort Mistake	3	88.80
Bloemfontein	10	99.98	Durban No.	0.25	95.77
Kimberley	3	90.27	Dullstroom	3	100.50
Zeerust	3	97.23	**Xhosa**		
No. Sotho			Constantiaberg	3	93.45
Pretoria	5	104.80	Table Mt.	0.25	94.82
Middelburg (Tvl)	3	98.69	Pt. Shepstone	3	94.74
Potgietersrust			Cala	3	91.90
Dullstroom			Umtata	3	105.57
Louis Trichardt	3	92.42	Pt. Elizabeth	3	91.64
Zulu			Grahamstown	3	105.32
Durban/Pietermaritzburg	10	97.92	Keiskammahoek	3	88.72
Johannesburg	10	107.38	East London	3	103.17
Port Shepstone	3	106.61	Butterworth	3	90.52
Greytown	3	95.34	Queenstown	3	105.92
Piet Retief	3	105.66	Bedford	3	90.87
Vryheid	3	90.61	Mt. Ayliff	3	100.84
Middelburg (Tvl)	3	102.65	Aliwal North	3	97.23
Eshowe	3	93.19	Cradock	3	104.11
The Brook	3	103.08	Rocklands	0.05	90.09
Davel	3	105.23	Noupoort	3	101.53
Mooiriver	3	93.53	Paarl	0.25	92.67
			Graaf Reinet	3	196.26

* 08.40-15.00.

So. Sotho/Zulu/Xhosa: W 03.00-21.00; Sun 04.00-20.30.

Tswana/No. Sotho: 03.00 (Sun 04.00)-08.40, 11.30-11.40, 15.00-21.00 (Sun 20.30). **Special prgr. to Lesotho:** Sat 03.00-03.35.

EXTERNAL SERVICES

Stations: H. F. Verwoerd Station: 4 × 250kW tr's (Brown Boveri) (G.C: 28.08E/26.35S):

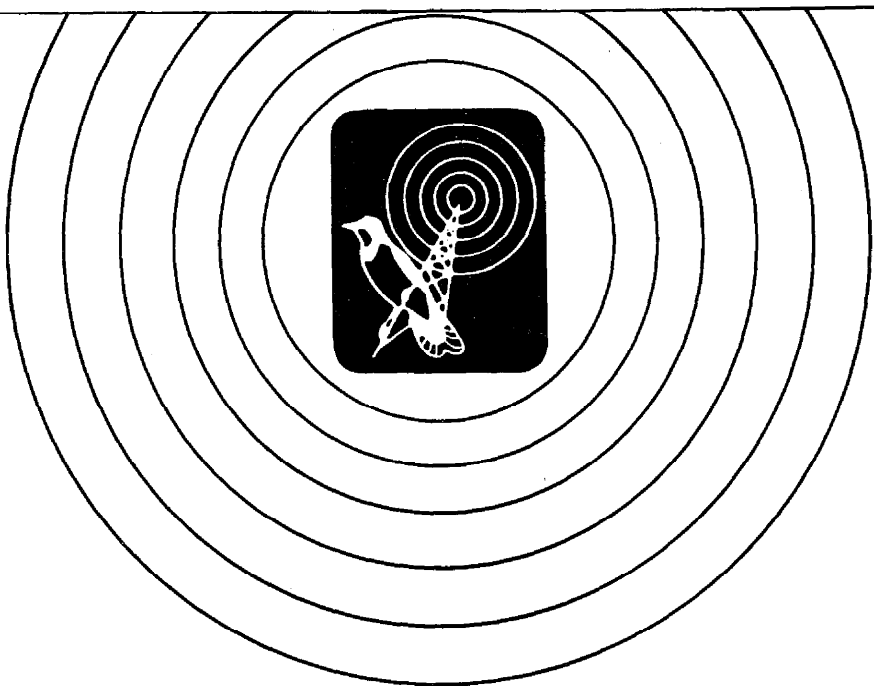
kHz	m	kHz	m	kHz	m	kHz	m	kHz	m
3997	75.05	7270	41.27	11875	25.25	17805	16.85
4985	61.28	9525	31.50	11900	25.21	17825	16.82
5980	50.17	9530	31.48	15220	19.71	21500	13.95
6075	49.38	9650	31.09	15245	19.68	21535	13.93
6135	48.89	9705	30.91	15360	19.53	25790	11.63
7185	41.75	11785	25.46	17795	16.86	25820	11.61

I = Kenya/Uganda/Tanzania; II = Middle East; III = Rhodesia/Zambia/Malawi; IV = Libya/Egypt/Jordan; V = Congo; VI = Mozambique; VII = Morocco/Algeria/Tunisia; IX = Ghana/Nigeria; X = Africa General; XI = Morocco/Algeria/Tunisia; XII = UK/Europe; XIII = Canada (Eastern); XIV = USA (Eastern & Central); XV = Canada (Central); XVI = USA/Canada (Western); XVII = Cameroon/Gabon/Niger; XVIII = Angola; XIX = New Zealand, XX = Australia; XXI = Southern Africa News Bulletin.

Schedule: 3/11 68 — 1/3 69

Times	Areas	kHz	Beam	Language
03.56-04.12*	I/III	7270/9525, 11900/15220	7.5°	Zulu/Swahili
04.13-04.27*	I	11900, 15220	7.5°	**English**
04.28-04.42*	II	17805, 21535	7.5°	**English**
04.43-04.57*	I	15220, 17805	7.5°	Afrikaans
04.58-05.12*	III	9525, 11900	7.5°	**English**
05.13-05.27*	IV	17805, 21535	7.5°	**English**
05.28-05.42*	V	17805, 21535	342.5°	French
05.43-05.57*	VI	9525, 11900	32.5°	Portuguese
05.58-06.12*	III	9525, 11900	7.5°	Afrikaans
06.13-06.27*	XVIII	15220, 17805	7.5°	Portuguese
06.28-06.42*	VII	17805, 21535	7.5°	French
06.43-06.57*	IX	15220, 17805	342.5°	**English**
07.56-09.50*	I/III	11900, 15220, 21535, 25790	7.5°	Afrikaans
09.26-09.46*	XXI	17825, 21535 25790	7.5°	Afrikaans
09.56-10.50**	XIX	15220, 17805 21535	154°	**English**
10.56-11.50	X	11900, 15220, 21535, 25790	7.5°	**English**/ Afrikaans
11.56-12.50	XX	15220, 17805, 21535	125°	**English**
12.56-14.50	X	11900, 15220, 21535, 25790	7.5°	**English**
14.56-15.50	I/III	11900, 15220, 21535, 25790	7.5°	Zulu/Swahili
15.56-16.50	III	11900, 15220	7.5°	**English**
15.56-16.50	VI	9705, 11785	32.5°	Portuguese
16.56-17.50	IV	21535, 25790	7.5°	**English**
17.56-18.50	I	17805, 21535,	7.5°	**English**
17.56-18.50	XII	17795, 21500,	342.5°	French
18.56-19.50	V	17805, 21535,	342.5°	French
18.56-19.50	XII	11875, 17795,	342.5°	**English**
19.56-20.50	XVIII	15360, 17805,	7.5°	Portuguese
19.56-20.50	XII	11875, 17795,	342.5°	German
20.56-21.50	IX	17805, 21535	342.5°	**English**
20.56-21.50	XII	11875, 17795,	342.5°	Dutch
21.56-22.50	XII	11875, 15245,	342.5°	Portuguese
23.26-00.20	XIII	9705, 11875, 15220	315°	**English**
00.26-01.20	XIV	9705, 11875, 15220	315°	**English**
01.26-02.20	XV	9705, 11875, 15220	315°	**English**
02.26-03.20	XVI	9705, 11875, 15220	315°	**English**

*) W only; **) Sun only.



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RADIO RSA

THE VOICE OF SOUTH AFRICA

South Africa—Tristan da Cunha

Schedule: 2/3 69—3/5 69

Times	Areas	kHz	Beam	Language
03.56-04.12*	I/III	3997, 5980, 9525, 11900	7.5°	Zulu/Swahili
04.13-04.27*	I	9525, 11900,	7.5°	**English**
04.28-04.42*	II	17805, 21535,	7.5°	**English**
04.43-04.57*	I	1190, 15220	7.5°	Afrikaans
04.58-05.12*	III	5980, 7270,	7.5°	**English**
05.13-05.27*	IV	17805, 21535,	7.5°	**English**
05.28-05.42*	V	11900, 15220,	342.5°	French
05.43-05.57*	VI	7270, 9525,	32.5°	Portuguese
05.58-06.12*	III	7270, 9525,	7.5°	Afrikaans
06.13-06.27*	XVIII	15220, 17805,	7.5°	Portuguese
06.28-06.42*	VII	15220, 17805,	7.5°	French
06.43-06.57*	IX	15220, 17805,	342.5°	**English**
07.56-09.50*	I/III	11900, 15220, 21535, 25790	7.5°	Afrikaans
09.26-09.46*	XXI	17825, 21535, 25790	7.5°	Afrikaans
09.56-10.50**	XIX	15220, 17805, 21535	154°	**English**
10.56-11.50	X	11900, 15220, 21535, 25790	7.5°	**English**/ Afrikaans
11.56-12.50	XX	15220, 17805, 21535	125°	**English**
12.56-14.50	X	11900, 15220, 21535, 25790	7.5°	**English**
14.56-15.50	I/III	11900, 15220, 21535, 25790	7.5°	Zulu/Swahili
15.56-16.50	III	11900, 15220,	7.5°	**English**
15.56-16.50	VI	9705, 11785	32.5°	Portuguese
16.56-17.50	IV	21535, 25790	7.5°	**English**
17.56-18.50	I	17805, 21535	7.5°	**English**
17.56-18.50	XII	17795, 21500	342.5°	French
18.56-19.50	V	17805, 21535	342.5°	French
18.56-19.50	XII	11875, 17795	342.5°	**English**
19.56-20.50	XVIII	15360, 17805	7.5°	Portuguese
19.56-20.50	XII	11875, 17795	342.5°	German
20.56-21.50	IX	17805, 21535	342.5°	**English**
20.56-21.50	XII	11875, 17795	342.5°	Dutch
21.56-22.50	XII	11875, 15245	342.5°	Portuguese
23.26-00.20	XIII	6075, 9705, 11875	315°	**English**
00.26-01.20	XIV	6075, 9705, 11875	315°	**English**
01.26-02.20	XV	6075, 9705, 11875	315°	**English**
02.26-03.20	XVI	6075, 9705, 11875	315°	**English**

*) W only; **) Sun only.

SOUTH WEST AFRICA SERVICE

H. F. Verwoerd Station: 3 × 100kW tr's (Telefunken).

kHz	m	kHz	m	kHz	m	kHz	m
4875	61.54	6005	49.96	11735	25.56	15270	19.64
4965	60.42	6095	49.22	11885	25.24	15365	19.52

Schedule: 3/11 68—3/5 69

Times	Afrikaans	English
04.28-06.00	*6005kHz	**6095kHz
06.00-16.30	15365kHz	15270kHz
16.30-21.30	6005kHz	6095kHz

*) 4875kHz from 2/3 69; **) 4965kHz from 2/3 69.

SUDAN

L.T: GMT + 2 h — Pr.L: Arabic.

SUDAN BROADCASTING SERVICE (Gov.)

ADDR: P.O. Box 572, Omdurman. **Cable:** Izaa. **L.P:** Acting Dir: M. El Obeid.

STATIONS (G.C: 32.28E/15.30N): 50kW (mw), 20kW (sw).
764kHz 393.7m—1295kHz 231.7m—*4994kHz 60.07m—7200kHz 41.67m—9508kHz 31.55m. * = varying.

HOME SCE: Arabic: 04.00-13.00, 14.00-22.00 (Fri 08.00-22.00)—**Local Prgr. for So. Sudan:** 13.00-13.40—**European Prgr:** 13.40-14.00.

ANN: Arabic: "Hunna Omdurman". E: "This is the Sudan Broadc. Service"—**V.** by letter.

SWAZILAND (Kingdom)

L.T: GMT + 2 h — Pr.L: English, Siswati.

SWAZILAND BROADCASTING SERVICE (Gov.)

ADDR: P.O. Box 338, Mbabane. **Te:** 761. **L.P:** Dir. of Broadc: I. B. Aers. Dir. Tec: C. Rowley.

STATION: 881kHz 340.5m 10kW—**HOME SCE. in Siswati, English:** 04.30-06.00, 10.30-11.40, 15.30-19.20; during School terms also 09.00-10.30 & 11.40-13.00. **BBC News:** 05.00, 11.30, 16.00. **Local N:** 18.00.

ANN: "Lena Swaziland Broadc. Service". "This is the Swaziland Broadc. Service"—**INT-SIG:** At sign-on "Cilongo" (the Swazi trumpet)—**V.** by letter **ALF:** £0.15.0.

TANZANIA

L.T: GMT + 3 h — Pr.L: Swahili, English.

RADIO TANZANIA (Gov.)

ADDR: P.O. Box 9191, Dar es Salaam. **Te:** 63342. **Cable:** Sauti.
L.P: Dir. of Broadc: M. Kiama Prgr. Officer: S. Mlatie. Press Officer: A. Cheche. Superintendent Radio Engineering: P. I. Mhumbira.

STATIONS (G.C: 39.14E/06.50S):

kHz	m	kW	kHz	m	kW	kHz	m	kW
656	457.3	100	4785	62.70	10	7280	41.21	10
836	358.9	1.25	5050	59.41	20	9530	31.48	20
1025	292.7	1.25	5985	50.12	100	9550	31.41	100
1250	240.0	1.25	7165	41.87	20	15435	19.44	100
3251	92.58	5						

HOME SCES:

SWAHILI SCE: W 03.00-05.00 on 836/3251kHz, 09.00-11.00 on 836/9530kHz, 11.00-14.30 on 836/9550kHz, 14.30-20.00 on 836/3251/5985kHz; Sun 03.00-07.00 on 836/3251/5050kHz, 07.00-11.00 on 836/950kHz, 11.00-14.30 on 836/9550kHz, 14.30-20.00 on 836/5985kHz. **N:** 04.00*, 10.00, 13.00, 15.00, 17.00*, 19.00 (* = including wrp).

ENGLISH SCE: W 09.00-11.00 (Sat 14.30) on 1025/7280kHz, 16.00 (Sat 14.30)—19.00 on 1025/4785kHz. Sun 05.00-14.30 on 1025/7280 kHz, 14.30-19.00 on 1025/4785kHz. **N:** 05.00* (Sun), 10.00, 16.00*, 18.00 (* = including wrp).

Adult Education Prgr. (Swahili and English): Mon-Fri 14.00-16.00 on 1025/4785kHz—**N:** 14.00, 15.00.

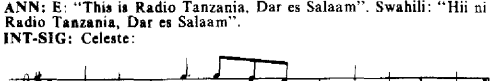
COMMERCIAL SCE. (Swahili): 03.00-05.00 on 656/5985kHz, 09.00-11.00 on 1250/9550kHz, 14.00-20.00 on 656/5050kHz.

For schools: 1) Primary (Swahili & English): Mon-Fri 07.00-08.55 on 1025/9550kHz; Sat 05.30-07.30 on 1025/5985kHz— 2) Secondary (English & Swahili): Mon-Fri 12.00-12.55 on 1025/9530kHz—3) Teacher Training (English & Swahili): Sat 07.30-08.55 on 1025/9550kHz.

EXTERNAL SCE. in English, Comoro, Shona, Ndebele, Portuguese, Sena, Zulu, Ovambo, Herero: 17.00-19.00 on 15435kHz. **English:** 17.00-17.15, 18.00-18.30 **N:** English 18.00. **Portuguese:** 17.30-18.00.

ANN: E: "This is Radio Tanzania, Dar es Salaam". Swahili: "Hii ni Radio Tanzania, Dar es Salaam".

INT-SIG: Celeste:



V. by QSL-card **FI:** By Gov and Adv. **ALF:** £1/-/-.

RADIO TANZANIA ZANZIBAR (Gov.)

ADDR: P.O. Box 1178, Zanzibar, Tanzania. **Te:** 2928. **Cable:** Broadcasts—**L.P:** Chief Inf. & Broadc. Officer: J. R. Nasibu. Dir. Tec: M. A. Suleiman. Broadc. Officer: J. C. Asama.

STATIONS (G. C: 39.12E/06.09S): 600kHz 500m 2kW—3339kHz 89.80m—4795kHz 62.54m—6005kHz 49.96m—9550kHz 31.41m (all 10kW).

HOME SCE. in Swahili: 03.30-04.30, 11.00-12.00, 14.30-19.30 (Sun also 07.00-11.00)—**ANN:** "Hii ni Sauti ya Tanzania, Zanzibar"—

INT. SIG: Musical Chords.

ST. HELENA

L.T: GMT—Pr.L: English.

ST. HELENA GOV. BROADCASTING STATION

ADDR: Education Dept., Jamestown — **L.P:** Educ. Officer: R. T. Billing. Gov. Inf. Officer: G. C. Lawrence.

STATION: 1511kHz 198.5m 1kW.

HOME SCE. in English: Fri only 09.45-11.30 (Schools); Sat 17.00-18.00 (alt. Sat 16.30-18.00); Sun 12.00-13.00, 17.00-18.00. **N** (BBC): 17.00 (Sat).

ANN: "You are tuned to the St. Helena Gov. Broadc. st. transmitting at 1511kHz in the m.w. band"—**INT-SIG:** Trumpet call 11 secs. repeated at 5 sec. intervals for four minutes. followed by "Life on the Ocean Waves"—**V.** by QSL-card.

TOGO (Republic)

L.T: GMT — Pr.L: Ewe, Cotocolis, Cabrais, Hausa, Moba, Bassari.

RADIODIFFUSION DU TOGO (Gov.)

ADDR: B.P. 434, Lomé. **Te:** 2492. **Cable:** Radio Togo. **L.P:** Dir: G. Ekue. Dir. Tec: L. Poenou.

STATIONS (G.C: 01.12E/06.16N):

kHz	m	kW	kHz	m	kW
1394	215.2	1	6155	48.74	4/100
3222	93.10	4/100	7265	41.29	4/100
5047	59.44	4/100			

HOME SCE. in French Vernaculars:
05.30-09.00 (Sun 10.05) on 1394/5047/6155kHz, 12.00-14.00 & 16.30-17.27 (Sun 10.08-17.27) on 1394/5047/7265kHz, 17.30-23.00 on 1394/5047/6155kHz.

N. in French: 05.35, 06.30, 07.57, 10.08 (Sun), 12.30, 13.57, 17.30, 19.30, 22.00, 22.57 — **N. in English:** 12.45, 19.50.

Vernaculars: 06.00, 06.05 (W), 13.00, 13.10, 17.35, 17.45, 17.55, 18.05, 18.15, 18.35 (Sun 13.00, 13.10, 18.15, 18.35).

ANN: "Ici Lomé Radiodiffusion du Togo". At opening and close down: Hymne Togolais — **V.** by QSL-card. Re. in F, E. Recordings accepted—

PUB: Prgr. sched. (Weekly) — **ALF:** CFA 500.00.

TRISTAN DA CUNHA (British)

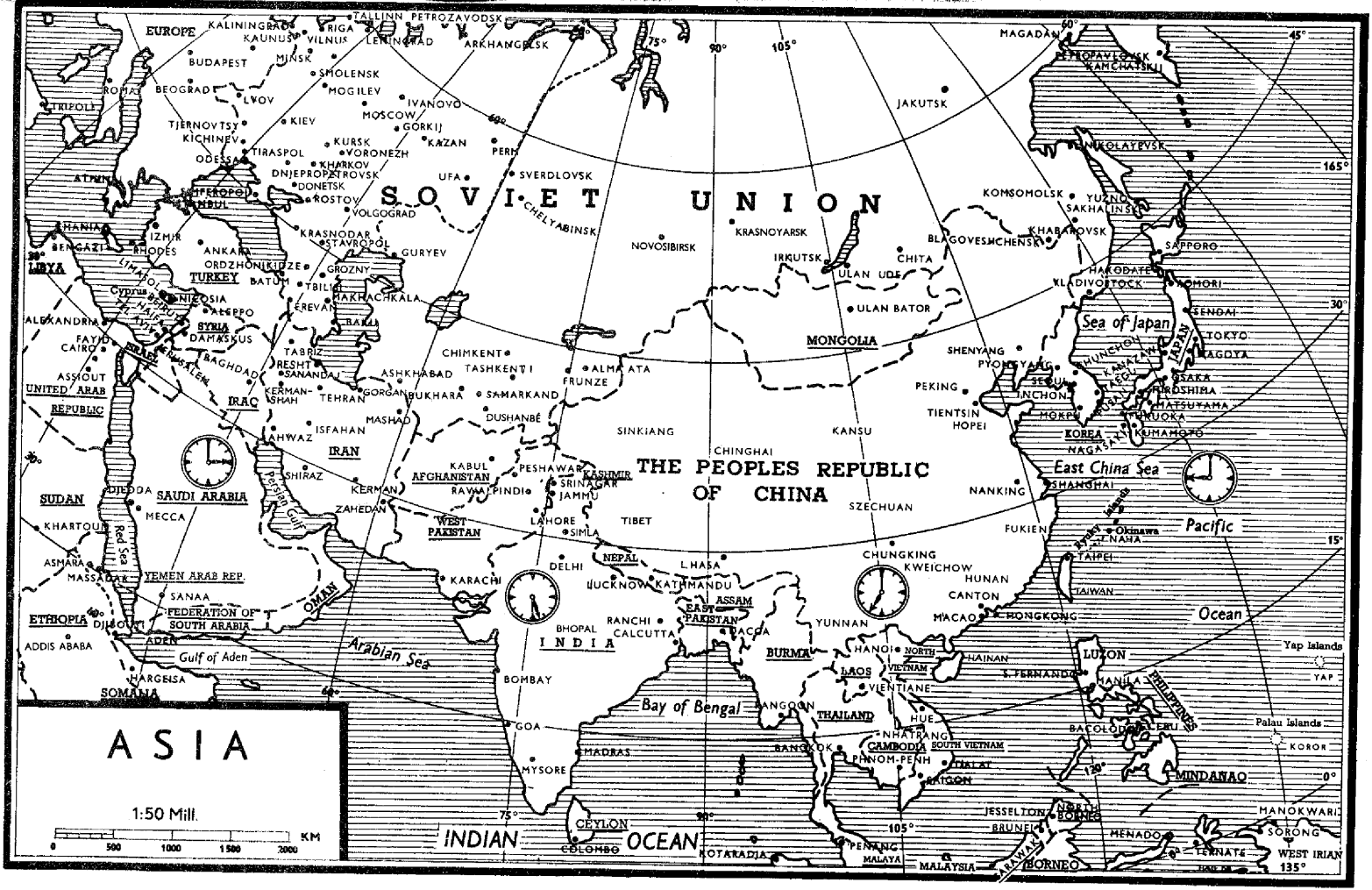
L.T: GMT—Pr.L: English.

ZOE TRISTAN RADIO (Gov.)

ADDR: The Administrator, Wireless Station, Tristan da Cunha, So. Atlantic. **L.P:** Dir. of Broadc: A. Hemming.

STATION: (G. C: 37.00S/12.00W): 3290kHz 91.19m 0.04kW:

HOME SCE. in English: Sun, Wed & Fri 19.00-22.00. **N:** 20.00 (BBC), 20.09 (local).


ASIA
1:50 Mill.
0 500 1000 1500 2000 KM
SOVIET UNION
THE PEOPLES REPUBLIC OF CHINA
INDIAN OCEAN
Sea of Japan
East China Sea
Pacific Ocean
Arabian Sea
Bay of Bengal
Gulf of Aden
Red Sea
Persian Gulf
EUROPE
LIBYA
TURKEY
SYRIA
IRAQ
IRAN
SAUDI ARABIA
SUDAN
ETHIOPIA
SOMALIA
OMAN
AFGHANISTAN
WEST PAKISTAN
INDIA
NEPAL
BURMA
THAILAND
LAOS
CAMBODIA
MONGOLIA
KOREA
JAPAN
LUZON
MINDANAO
BORNEO
CEYLON
Yap Islands
Palau Islands
WEST IRIAN

Tristan da Cunha—Brunei

ANN: "This is Tristan Radio Broadc. Station"—**INT-SIG:** Scottish Soldier (vocal)—**V.** by QSL-card or letter—**F.PL:** Extention in broadc. time.

TUNISIA

L.T: GMT + 1 h — **Pr.L:** Arabic.

RADIODIFFUSION TELEVISION TUNISIENNE (Gov.)

ADDR: 71, Avenue de la Liberté, Tunis. **Te:** 259311.

STATIONS:

	kHz	m	kW			kHz	m	kW
Tunis I	629	476.9	600	—	Sfax I	719	417.2	100
Tunis II	962	311.9	100	—	Sfax II	602	498.4	5

Shortwaves (Djèdeida)

kHz	m	kW	kHz	m	kW	kHz	m	kW
5985	50.13	50	15215	19.71	100	17720	16.93	100
6195	48.43	50	15385	19.50	100	17735	16.92	50
11900	25.21	100						

ARABIC NETWORK (Nat. Prgr): 05.00-23.30 on 629/719kHz.
Relayed on sw to the Mid East & No. Africa: 06.00-17.00 on 17735kHz (or 5985/6195kHz), 05.00-23.30 on 11900/15215 (or 15385) kHz; 07.00-19.00 on 17720kHz — **Local Prgr:** 05.00-23.30 on 602kHz.
INTERNATIONAL NETWORK: Tunis II 962kHz 312m 100kW — **FM:** 90.1MHz 3kW.
International Prgr: 05.30-13.30, 14.30-22.00. **Italian:** 13.30-14.30 — **Relay Nat. Prgr (Arabic):** 22.00-23.30.
ANN: Arabic: "Hunna Al Itha Attounissia". F: "Ici Tunis Radiodiff. Télévision Tunisienne". I: "Radiodiff. Tunisina, Rete Internazionale Programma Italiano" — **V.** by QSL-card. Re in Arabic, E, F, Recordings accepted.

UGANDA (Republic of)

L.T: GMT + 3 h — **Pr.L:** English, Vernaculars.

RADIO UGANDA (Gov.)

ADDR: Ministry of Inf. Broadc. and Tourism, Broadcasting House, P.O. Box 2038, Kampala. **Te:** 57251. **Cable:** Broadcasts— **L.P:** Ag. Contr. (Prgr's): R. Sempa. Chief Eng: H. F. Humphreys.
STATIONS mw: 1/2/50kW, sw: 3/8kW (G.C: 32.36E/00.20N).

kHz	m	Netw.	kHz	m	Netw.	kHz	m	Netw.
575	521.7	Blue	3340	89.81	Red	7110	42.19	Blue
638	470.2	Blue	4976	60.29	Red	7195	41.70	Red
728	412.0	Red	5026	59.70	Blue			

HOME SCE: Red Network (Nat, No. Reg. Prgr's): 03.25-05.45 on 728/4976kHz, 06.00-11.30 (Sun 14.00) on 728/7195kHz, 14.00 (Sun 14.15)-21.02 on 728/4976kHz — **N. in English:** 04.00, 05.00, 06.00, 09.00 (Mon-Fri). 09.15 (Sun), 10.00 (Mon-Fri) 17.00, 18.00, 20.00 (Exc. Sat), 21.00.
Blue Network (Nat. Midland & We. Reg. Prgr's): 03.45-05.45 on 575/638/5026kHz, 06.00-11.30 (Sun 14.00) on 575/638/7110kHz, 14.00 (Sun 14.15)-21.02 on 575/638/5026kHz.
N. in English: 04.00, 05.00 (Sat/Sun), 06.00 (Sat/Sun), 09.00 (Mon-Fri), 09.15 (Sun), 10.00 (W), 18.00, 20.00 (exc. Sat), 21.00.
ANN: E: "This is R. Uganda, Kampala" — **INT-SIG:** African Drums — **V.** by letter. Recordings accepted — **F.PL:** Four 100kW mw-tr's + External Service.

UPPER VOLTA

L.T: GMT — **Pr.L:** French + 13 vernacular languages.

RADIODIFFUSION-TELEVISION VOLTAIQUE (Gov.)

ADDR: B.P. 511, Ouagadougou. **Te:** 2214. **Cable:** Radiovolta — **L.P:** Dir: R. G. Zongo. Dir. of Prgr's: Y. Gnessien. Dir. N: R. Nikiema Dir. Tec: J. M. Ouedraogo.
STATIONS (G.C: 01.31W/12.22N): 1340kHz 223.8m 1kW. 4815 kHz 61.31m 4kW—9515kHz 31.53m 4kW.
HOME SCE. in French, Vernaculars: W 06.00-08.00, 12.00 (Wed, Fri 11.00)-14.00, 17.00-23.00 (Sat 12.00-23.00); Sun 07.00-23.00.
N. in French: 06.30 (W), 07.45, 08.30 (Sun), 12.10, 12.45, 15.30 (Sat), 19.10, 19.45, 22.15, 22.55 — **Wrp:** W 12.40 — **Vernaculars:** 17.45-19.10.
R. Bobo-Dioulasso — **Addr:** B.P. 392, Bobo-Dioulasso. **Te:** 169. **Cable:** Radio Volta Bobo — **L.P:** St. Mgr: P. Barry. Dir. Tec: P. C. Songre — **Station:** 1586kHz 189.1m 1kW — Relay Ouagadougou in French: W 06.25-08.00, 12.00-13.30, 19.00 (Sat 18.00)-22.00; Sun 11.00-22.00.
ANN: "Ici Ouagadougou, Radiodiff. Télévision Voltaïque émettant..." — **INT-SIG:** Folklore Music (Balafon) — **V.** by QSL-card or letter.

ZAMBIA

L.T: GMT + 2 h—**Pr.L:** English, Vernaculars.

ZAMBIA BROADCASTING SERVICES (Gov.)

ADDR: Broadc. House, P.O. Box RW 15, Lusaka; P.O. Box 748, Kitwe. **Te:** 72986. **Cable:** Broadcasts—**L.P:** Dir: A. Nkhata. Chief Eng: J. Allerton. Contr. Adm: J. Housden; Head of N: M. Nyabingwe; Head of Prgr's J. Kateka.
STATIONS: GS = General Sce; HS = Hone Sce.
Medium Waves:

	kHz	m	kW	Sce		kHz	m	kW	Sce
Kitwe	548	547.4	20	GS	Ndola	1205	249.0	1	GS
Lusaka	629	476.9	2	HS	Kabwe	1457	205.9	2	GS
—	818	366.7	20	HS	Kabwe	1570	191.1	2	HS
Kitwe	1070	280.4	20	HS	Livingstone	1620	185.2	1	HS
Livingstone	1142	262.7	1	GS					

FM: Lusaka 88.2MHz 5kW (HS); 92.2MHz 5kW (GS).

Short Waves (Lusaka): (G.C: 28.15E/15.30S):

kHz	m	kW	Sce	kHz	m	kW	Sce
2360	127.1	10	HS	6165	48.66	10/20	GS
2455	122.2	10	GS	7220	41.55	10/20	HS
3295	91.05	20/10	HS	7240	41.44	120	GS
3346	89.68	120	GS	9505	31.56	10/20	HS
4911	61.08	10/20	HS	9580	31.32	2.5/10	GS
4965	60.42	10/20	GS	11850	25.32	10	HS
6060	49.50	10/20	HS	11880	25.25	10	GS

D.PRGR'S: General Service (English, Vernaculars): 03.30-05.30 on 3345/4965/6165kHz, 05.30-05.45 on 4965/6165kHz, 05.45-06.30 on 4965/6165/7240kHz, 06.30-06.45 on 6165/7240kHz, 06.45-14.00 on 6165/7240/9580kHz, 14.00-14.15 on 6165/7240kHz, 14.15-15.30 on 4965/6165/7240kHz, 15.30-21.00 on 3346/4965/6165kHz.
N. in English: W 03.45, 04.00, 05.00, 06.00, 09.00, 11.15, 16.00, 18.00, 20.00, 21.00. Sun 07.00, 11.15, 16.00, 18.00, 20.00.
HOME SCE. (Vernaculars): 03.30-06.00 on 3295/4911/6060kHz, 06.00-07.00 on 4911/6060/7220kHz, 07.00-15.00 on 6060/7220/9505 kHz, 15.00-16.00 on 4911/6060/7220kHz, 16.00-21.00 on 3295/4911/6060kHz—**N.** (Vernaculars): 03.45, 03.50, 03.55, 04.00, 04.30, 08.50, 10.45, 11.15, 13.45, 16.10, 17.15, 18.00.
ANN: Gen. Sce: "This is Lusaka calling" or "You are tuned to the General (Home) Sce. of R. Zambia"—**PUB:** Monthly prgr. Schedule—**FI:** by state, license fees, adv—**ALF:** £1/-/- (Radio + TV: £5/-/-).

ASIA

AFGHANISTAN

L.T: GMT + 4½ h — **Pr.L:** Pushtu, Dari.

RADIO AFGHANISTAN (Gov.)

ADDR: P.O. Box 544, Kabul. **Te:** 24585. **Cable:** Afghradio — **L.P:** Pres: S. Kushkaki. Dir. Prgr: Dr. A. L. Jalali. Dir. Tec: M. K. Attaie. Head. Pub. Rel. Dept: M. Rafiq. Ag. Dir. Pub. Rel. Dept: Mrs. P. Ali.
STATIONS: *Pol-e-Tschardi; others Kabul.

kHz	m	kW	kHz	m	kW
660	454.5	20	9635	31.14	50d
*1280	234.0	100	11775	25.48	100d
4775	62.84	100nd	15265	19.66	50d
6000	50.00	50	15435	19.43	100
7200	41.67	50	21585	13.90	100

HOME SCE. in Pashtu/Dari: 02.00-04.00 on 1280/6000/7200kHz, 07.30-08.30 on 660/6000/7200kHz, 11.30-18.30 on 1280kHz, 11.30-13.30 on 6000kHz, 13.00-17.00 on 7200kHz, 13.00-17.45 on 660kHz. **N:** 01.30, 02.00, 02.30, 03.00, 07.30, 08.00, 11.30, 12.00, 12.30, 13.00, 13.30, 14.00, 14.30, 15.00, 15.30, 16.00, 16.30, 17.00.
FOREIGN SCE: a) to Europe;

English	kHz	Pashtu/Dari	kHz
14.00-14.30	4775	14.30-17.30	4775
18.00-18.30a	11775, 15265		
German		**Russian**	
17.30-18.00	11775, 15265	17.00-17.30	7200
Pashtu/Dari		**Urdu**	
12.00-13.00a	15435, 21585	13.00-14.00	4775

NEWS: English: 14.00-18.00. **German:** 17.30. **Pashtu/Dari:** 11.00, 11.30, 12.00, 12.30, 14.30, 15.00, 15.30, 16.00. **Russian:** 17.00. **Urdu:** 13.00, 13.30.
ANN: "Da R. Afghanistan Kabul Dai" — **INT-SIG:** A record on national flute — **V.** by QSL-card. Recordings accepted. Reports to P.O. Box 544, Kabul.

BAHRAIN

L.T: GMT + 4 h—**Pr.L:** Arabic.

BAHRAIN BROADCASTING STATION (Gov.)

ADDR: P.O. Box 253, Manama, Bahrain, Arabian Gulf. **Te:** 612278.
STATION: 610kHz 491.8m 2kW—**HOME SCE: in Arabic:** D 05.30 (Fri 04.00)-08.00, 16.00-19.30.
ANN: Arabic: "Hunal Bahrain" (This is Bahrain) — **INT SIG:** Local composition of guitar and violin — **V.** by letter.

BRUNEI (British Protected State)

L.T: GMT + 8 h — **Pr.L:** Malay, English, Chinese.

RADIO BRUNEI (Gov.)

ADDR: Dept. of Broadc. & Inf, Brunei. **Te:** 345. **Cable:** Infoff. **L.P:** Dir. of Broadc. & Inf: G. V. de Freitas. Dept. Dir: Md. Abd. Kadir. Chief Eng: N. J. A. Frigout. Press Officer: M. C. Yussof.
STATIONS:

895kHz*	335m	10kW:	23.00-00.30, 08.00-14.30
970kHz*	309m	1.2kW:	22.30-06.00, 10.00-14.30
1100kHz**	272m	0.66kW:	23.00-00.30, 08.00-14.30
1240kHz***	242m	20kW:	22.30-06.00, 10.00-14.30
4965kHz	61.66m	10kW:	08.00-14.30

*) Brunei Town; **) Seria; ***) Tutong.

HOME SCE: Malay: 22.30-01.00, 04.30-06.00, 10.00-14.30 on 970/1240kHz; 11.00-13.00 on 4865kHz — **English:** 23.00-00.30 on 895/1100kHz, 03.00-04.30 on 970/1240kHz, 12.00-14.30 on 895/1100kHz, 13.00-14.30 on 4865kHz — **Chinese:** 01.00-03.00 on 970/1240kHz, 08.00-11.00 on 895/4865kHz. **N. in English (BBC):** 04.15, 13.15. **Forces Prgr:** 11.00-12.00 on 895/1100kHz.
ANN: E: "This is R. Brunei". Malay: "Inilah R. Brunei" — **INT-SIG:** Opens with the sound of Native gong preceded by TS — **V.** by QSL-card or letter (for sw. only). Re. to Chief Eng. Recordings accepted — **PUB:** "Suara Brunei" (Voice of Brunei) in English, Malay, Chinese.

BURMA

L.T: GMT + 6½ h — **Pr.L:** Burmese, English.

BURMA BROADCASTING SERVICE (Gov.)

ADDR: Prome Rd, Kamayut P.O, Rangoon. **Te:** 31355. **Cable:** Burbrocast — **L.P:** Dir: Major K. Sunn, U Kyaw Nyein. Dir. Tec: U. Win Mg, M.I.R.E. Dep. Dir. Adm: K. Minn.
STATIONS (G.C: 96.05E/16.55N):

Call	kHz	m	kW	Call	kHz	m	kW
XZK	955	314.0	50	XZK42	5040	59.52	50
XZK8	1150	261.0	5	XZK3	6035	49.71	50
XZK2	4795	62.57	50	XZK4	7120	42.13	50

FM: 100/102/104/106MHz 0.25kW.
HOME SCE: Prgr. I: Burmese: 00.30-01.30 on 955/6035kHz, 04.30-07.00 on 955/7120kHz, 11.00-14.30 on 955/5040kHz — **N:** 01.00, 06.30, 13.30 — **Wrp:** 13.28 — **Folklore Music:** Mon, Wed, Fri 13.45 — **English:** 01.30-02.30 on 955/6035kHz, 07.00-07.30 on 955/7120kHz, 14.30-16.00 on 955/5040kHz — **N:** 02.00, 07.00, 14.45 — **Mbg:** Wed, Fri 14.30, Sat 07.10, Sun 02.10.
Prgr. II (Burmese): 11.00-14.45 on 1150/4795kHz.
ANN: E: "This is the Burma Broadc. Service". Burmese: "Myanma Athan Hma Athan Hlwint Nay Barthe" — **INT-SIG:** Burmese Orchestral Music — **ALF:** K 9/- for 3 years.

CAMBODIA

L.T: GMT + 7 h — **Pr.L:** Cambodian, French, English.

RADIODIFFUSION NATIONALE KHMERE (Gov.)

ADDR: 28. Av. Preah Mohaksatryany Kossomak, Phnom-Penh. **Te:** 3958. **Cable:** Miformation — **L.P:** Dir. Gen: Lim Sainvar. St. Mgr. and Dir. Tec: E. Samrech.
STATIONS (G.C: 104.51E/11.34N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
1410	212.8	120	4907	61.14	15	9695	30.94	50
1540	194.8	20	6090	49.26	50			

4907kHz very variable. Currently heard on 5002kHz.
HOME SCE. (Nat. Netw.): On 1410/6090kHz: 23.00-17.00. **N:** 23.00-(Sun 00.00), 05.00, 07.00, 12.00, 14.00.
INTERNATIONAL SCE: On 1540/4907kHz (Netw. I): 23.00-24.00, 05.30-06.00, 12.30-13.00, 14.00-14.30. **N. in English:** 23.45 (Sun 00.45), 05.45, 12.45. **N. in French:** 23.30 (Sun 00.30), 05.30, 12.30. **Comm. in French:** Mon, Wed, Fri 14.00-14.30 — On 9695kHz (Netw. II): 01.45-04.15, 12.00-14.40. **N: English:** 02.00, 03.45. **French:** 02.15, 03.30. **Khmère:** 01.45, 03.15. **Thai:** 04.00, 14.30. **Chinese:** 12.00, 12.30, 13.00. **Loatian:** 14.00. **Vietnamese:** 13.30.
ANN: F: "Ici Phnom-Penh, La Voix du Cambodge". E: "This is R. Phnom-Penh, the Voice of Cambodia" — **V.** by letter — **AD:** 00.00-01.30.

CEYLON

L.T: GMT + 5½ h — **Pr.L:** English, Sinhala, Tamil.

CEYLON BROADCASTING CORPORATION (Public Corpo.)

ADDR: P.O. Box 574, Colombo 7. **Te:** 93171. **Cable:** Radceylon — **L.P:** Chmn. of Board of Dir's and Dir. Gen: N. D. Jayaweera. Dep. Dir. Gen: N. S. Wickremasinghe. Acting Secr: E. K. Perera.
STATIONS (G.C: 79.54E/07.06N).

kHz	m	kW	kHz	m	kW	kHz	m	kW
540	555.6	0.25	4870	61.60	10	6185	48.50	10
570	526.3	0.25	4900	61.22	10	7190	41.72	10
640	469.0	0.25	4968	60.38	10	9670	31.02	100
700	428.0	25	5020	59.76	10	9720	30.86	100
870	344.8	20	5076	59.10	10	11800	25.42	35
920	326.0	20	6005	49.96	10	15230	19.70	100
1030	294.0	20	6075	49.38	10	17815	16.84	35
3385	88.63	10	6130	48.94	10	17830	16.83	35

NATIONAL SCE: (P & H=Poya days & holidays).
English: 11.30-17.30 on 920/5020kHz (P & H 04.30-07.30 on 920/6185kHz) — **Sinhala:** 01.00 (P & H 00.25)-03.00 on 540/700/4900kHz, 01.00 (P & H 00.25)-01.25 on 3385kHz only, 06.30 (P & H 03.00)-08.00 on 540/570/700/6075kHz, 11.30 (P & H 11.00)-17.00 on 540/570/700/3385/4900kHz — **Tamil:** 01.15-03.00 on 870/4968kHz, 06.30-08.00 on 870/6005kHz (P & H 03.00-04.30 on 870/6005kHz, 06.00-08.00 on 870/6005kHz), 11.30-17.00 on 870/4968kHz — **Sandhya Sevaya (in Sinhala):** 14.30-17.00 on 1030/5076kHz — **Educational Sce:** 03.50-06.05 on 700/6075kHz, 12.40-14.25 on 1030/5076kHz.
COMMERCIAL SERVICE: To Ceylon:
English: 01.15-03.00 on 920/5020kHz, 03.00-03.30 on 920/6130kHz, 07.30-09.30 (P & H 11.30) on 920/6130kHz, 12.30-17.00 on 640/4870kHz — **Sinhala:** 01.15-03.00, 10.30-12.30 on 640/4870kHz, 03.00-10.30 on 640/6185kHz — **Tamil:** 01.15-03.30, 09.30-10.30 on 920/6130kHz, 03.30-04.30 & 10.30-11.30 on 920/5020kHz, 11.30-12.30 on 1030/5076kHz.
To Asia: English: 01.30-03.30 (Sun 04.30) on 9670/15230kHz, 12.30-17.00 on 9670kHz — **Hindi:** 01.30-04.30 (Sun 07.30) on 11800/9720/7190kHz, 13.30-17.30 on 11800/9720/6075kHz — **Tamil:** 11.00 (Sat/Sun 10.30)-13.30 on 11800/9720/6075kHz. **N. in English:** 02.00, 07.45, 12.45, 15.45. **N. in Sinhala:** 01.30, 07.15, 12.30, 15.30. **N. in Tamil:** 01.30, 07.15, 12.30, 15.30.
EXTERNAL SERVICE in English
To So. East Asia: 11.00-12.00 on 17830kHz. Sinhala: Sun 11.15-11.45; Tamil: Tues 11.15-11.45; Urdu: Thurs 11.30-11.45; Malay: Fri 11.15-11.30; Hindi: Sat 11.30-11.45. All other times in English — **N. in English:** 11.45 — **DX-Panorama:** 2nd and last Sat of month 11.00-11.15.
ANN: E: National Sce: "This is the National Sce of the Ceylon Broadc. Corpo". Ext. Sce: "This is R. Ceylon, the Overseas Sce. of the Ceylon Broadc. Corpo. calling listeners in South East Asia". Comm. Sce: "This is the Comm. Sce. of the Ceylon Broadc. Corpo". Overseas Sce: "This is R. Ceylon the Comm. Sce. of the Ceylon Broadc. Corpo".
INT-SIG: Nat. Sce: Nat. Drums (Magul Bera) followed by Jaya Mangala Gatha. External Sce: Oriental folk theme "Gajaga Vannama" **V.** by QSL-card or letter. Re. in E. to be addressed to Listener Research Officer. Recordings accepted — **PUB:** R. Times (fortnightly) — **FI:** By state, licences, adv — **ALF:** Rs. 15/-.

VOICE OF AMERICA RADIO STATION IN CEYLON

ADDR: Voice of America, Washington D.C. 20547, USA.
STATIONS: Colombo 35kW: (G.C: 79.54E/07.06N).

kHz	m	kHz	m	kHz	m	kHz	m
7105	42.22	7275	41.24	11835	25.35	15285	19.63

English: 01.00-03.30, 11.30-18.00. **Urdu:** 15.00-16.00. **Tamil:** 16.00-16.30.
ANN: "This is the Voice of America" is given in the language of the program and in English—**INT-SIG:** Theme of "Columbia, the Gem of the Ocean" — **V.** by QSL-card.

CEYLON REDIFFUSION SERVICE LTD. (Gov. Comm.)

ADDR: P.O. Box 1002, Colombo. **Cable:** Rediffusion. **Te:** 7247 — **L.P:** Gen. Mgr: R. L. Kettle — Four prgr's (English, Hindi, Tamil, Sinhala) via wired network.

CHINA (Peoples Rep. of)

L.T: GMT + 8 h (Urumchi: GMT+6 h)—**Pr.L:** Chinese.

BROADCASTING ADMINISTRATION (Gov.)

ADDR: Broadc. Adm. Fu Hsin Men, Peking.

RADIO PEKING/CENTRAL PEOPLES BROADCASTING STATION

Medium Waves (Home Service): 135/270kW:

kHz	kHz	kHz	kHz	kHz	kHz	kHz	kHz
540	600	690	803	955	1090	1210	1445
560	610	720	825	970	1120	1280	1480
570	630	730	840	980	1140	1330	1510
590	645	760	850	1000	1160	1350	

Medium Waves (Foreign Sce).

kHz	m	kHz	m	kHz	m	kHz	m
1020	294.1	1190	252.1	1310	229.0	1340	223.9
1040	288.5	1300	230.8	1313	228.5	1525	196.7

Short Waves (Home and Foreign Services): 120/240kW.

kHz	m	kHz	m	kHz	m	kHz	m
2800	107.10	5125	58.54	6325	47.43	7115	42.16
3200	93.75	5145	58.31	6330	47.39	7120	42.13
3220	93.17	5160	58.14	6335	47.36	7150	41.96
3270	91.74	5215	57.53	6340	47.32	7155	41.93
3290	91.19	5220	57.47	6345	47.28	7170	41.84
3360	89.29	5240	57.25	6390	46.95	7190	41.72
3390	88.50	5250	57.14	6400	46.88	7200	41.67
3450	86.96	5295	56.66	6430	46.66	7230	41.49
3500	85.71	5320	56.39	6520	46.01	7240	41.44
3660	81.97	5360	55.97	6525	45.98	7250	41.41
3795	79.05	5450	55.05	6540	45.87	7265	41.29
3815	78.64	5500	54.55	6550	45.80	7270	41.27
3830	78.33	5535	54.20	6560	45.73	7280	41.21
3865	77.60	5545	54.10	6575	45.63	7300	41.10
3880	77.32	5650	53.10	6590	45.52	7305	41.07
3900	76.92	5850	51.28	6610	45.39	7315	41.01
3905	76.82	5860	51.19	6620	45.32	7335	40.90
3915	76.63	5870	51.11	6645	45.15	7350	40.82
3920	76.53	5880	51.02	6710	44.71	7370	40.71
3940	76.14	5915	50.72	6715	44.68	7435	40.35
3960	75.76	5935	50.55	6730	44.58	7440	40.32
3980	75.38	5950	50.42	6760	44.38	7450	40.27
3990	75.19	5960	50.34	6790	44.18	7480	40.11
4020	74.63	5975	50.21	6810	44.05	7490	40.05
4035	74.35	5985	50.13	6825	43.96	7500	40.00
4060	73.89	6000	50.00	6860	43.73	7580	39.58
4130	72.64	6025	49.79	6890	43.54	7610	39.42
4160	72.12	6065	49.46	6915	43.38	7620	39.37
4200	71.43	6103	49.15	6955	43.13	7630	39.32
4220	71.09	6107	49.12	6995	42.89	7660	39.16
4250	70.59	6125	48.98	7005	42.83	7700	38.96
4360	68.81	6130	48.94	7025	42.70	7720	38.86
4460	67.26	6155	48.74	7035	42.64	7770	38.61
4620	64.94	6180	48.54	7060	42.49	7820	38.36
4770	62.89	6210	48.31	7065	42.46	7925	37.85
4860	61.73	6225	48.19	7070	42.42	7947	37.75
4905	61.16	6245	48.04	7075	42.40	7980	37.59
4960	60.48	6275	47.81	7080	42.37	8245	36.39
5030	59.64	6290	47.69	7095	42.28	8260	36.32
5075	59.11	6320	47.47	7110	42.19	8270	36.28

kHz	m	kHz	m	kHz	m	kHz	m
8300	36.15	9690	30.96	11720	25.60	15270	19.65
8330	36.01	9710	30.90	11725	25.59	15290	19.62
8345	35.95	9730	30.83	11740	25.55	15315	19.59
8350	35.93	9755	30.75	11750	25.53	15370	19.52
8400	35.71	9765	30.72	11800	25.42	15417	19.46
8425	35.61	9775	30.69	11820	25.38	15435	19.44
8440	35.55	9785	30.66	11860	25.30	15480	19.38
8490	35.34	9800	30.61	11885	25.24	15500	19.35
8565	35.03	9860	30.43	11910	25.19	15520	19.33
8747	34.30	9870	30.40	11920	25.17	15550	19.35
8940	33.56	9880	30.36	11925	25.16	15590	19.24
8965	33.46	9900	30.30	11930	25.15	15610	19.22
9020	33.26	9920	30.24	11945	25.12	15710	19.10
9060	33.11	9945	30.17	11957	25.09	15880	18.90
9065	33.09	9955	30.14	11965	25.07	15960	18.80
9080	33.04	9965	30.11	11975	25.05	17450	17.19
9170	32.72	9972	30.08	11980	25.04	17490	17.15
9245	32.45	9985	30.05	12005	24.99	17533	17.11
9290	32.29	10180	29.47	12010	24.98	17605	17.04
9340	32.12	10260	29.24	12015	24.97	17650	17.00
9365	32.03	10865	27.61	12035	24.93	17680	16.97
9380	31.98	11100	27.03	12055	24.89	17700	16.95
9385	31.97	11130	26.95	12060	24.88	17715	16.93
9390	31.95	11290	26.57	12065	24.87	17720	16.93
9400	31.91	11330	26.48	12110	24.77	17740	16.91
9457	31.72	11445	26.21	12120	24.75	17745	16.91
9470	31.68	11455	26.19	14990	20.01	17750	16.90
9480	31.65	11505	26.08	15000	20.00	17765	16.89
9490	31.61	11515	26.05	15030	19.96	17780	16.87
9500	31.58	11600	25.86	15040	19.95	17795	16.86
9510	31.55	11610	25.84	15060	19.92	17810	16.84
9540	31.45	11620	25.82	15080	19.89	17835	16.82
9550	31.41	11630	25.80	15095	19.87	17850	16.81
9570	31.35	11650	25.75	15115	19.85	17860	16.80
9590	31.28	11657	25.74	15140	19.82	17875	16.78
9605	31.23	11675	25.70	15175	19.77	17897	16.76
9620	31.19	11685	25.67	15195	19.74	21780	13.97
9650	31.09	11690	25.66	15236	19.69	21600	13.89
9660	31.06	11695	25.65	15241	19.69		
9665	31.04	11715	25.61	15255	19.67		

HOME SERVICES (Radio Peking)

First Prgr: 20.38-16.15 (approx) on 540/560/570/630/645/690/760/825/850/870/980/1140/1330kHz: also on sw: 3915/4460/5320/6107/6225/7095/7500/9060/9080/11290/11330/11920/15000kHz plus additional freq's in the 93, 19 and 16 m.b. — **N:** 21.30, 22.30, 23.30 (W), 00.00, 02.00, 04.30, 08.00, 10.00, 12.10, 12.30, 14.00, 15.00, 16.00.
Second Prgr: W exc. Tues: 21.38-03.40, 03.48-06.00, 09.38-16.30; Tues: 21.38-03.40, 03.48-16.30; Sun 21.38-16.30 on 600/610/720/1160kHz + 4250/5075/6345/7190/9020/10260/11505/15030 (00.00 06.00 only), 17605kHz (also in the 91 m.b.).
N: 22.00, 23.00, 00.00 (dictation exc. Sun), 05.00(W), 15.00-16.30 (dictation).
Third Prgr: 00.48-06.00(Sun), 09.38-15.00(daily) on 1000/1120/6790 kHz, and in the 78, 67 and 26 m.b.'s (78 m.b. reported on 3830kHz) — **N:** 11.25.
Fourth Prgr. (Peking Local): 22.35-02.45, 04.00-05.30, 07.55-15.15 on 840/1210/1350/1480kHz.
Prgr. to Taiwan: 20.55-01.00, 02.55-06.05 (Sun 07.05), 08.25-17.05 on 590/685/750/910/1090/1198/1295/1480/1510kHz (Amoy/Foochow area st's) and on 5160/7025/7270/9170/11100/15590/15710/15880/17450/17490/17533kHz (and on additional freq's in the 70 and 44 m.b.'s).
N (Standard Chinese): 22.00, 23.00, 04.00, 05.00, 10.00, 11.00, 12.00, 14.00, 15.00, 16.00. **Amoy:** 21.00, 00.00, 03.00, 08.30, 13.00. **Hakka:** 09.30.

FOREIGN SERVICE

Areas: I = S.E. Asia; II = Mid. East; III = No. America (East); IV = No. America (West); V = Australia/New Zealand; VI = Africa; VII = Europe; VIII = So. Asia; IX = No. Ea. Asia; X = Brazil; XI = Soviet Union; XII = So. America; XIII = Ce. America/Mexico/West Indies.

English	Areas	kHz/m.b.
00.00-01.00	III	17680/17850
01.00-02.00	III	7120/9780(Tirana relay)/15060/17680/17715
02.00-03.00	III	15060/17680/17715
03.00-04.00	IV	7120/9780(Tirana relay)/15060/15095/17680 17795
04.00-05.00	IV	15060/15095/17680/17795
05.00-09.00	VII	15185/15290/15380/17700/17745/17795
08.30-09.30	V	11600/11720/15060/15435/17835
09.30-10.30	V	11600/11720/15060/15435/17835
12.00-13.00	I	1190/1340/7335/9290/9340/9480/11590/11675/12110/15095
13.00-14.00	I	1340/7335/9290/9340/9480/11590/11675/12110/15095
14.00-15.00	VIII	7315/9860/11740/15095
15.00-16.00	VIII	7315/9860/11740/15095
16.00-17.00	VIII	1310
16.00-18.00	VI	4035/7315/9860/11725/12110(Ea. & So. Africa)
19.30-21.30	VI	9470/11695/15060(We. & No. Africa)
20.30-22.30	VII	6290/7075/9800/11675
Amoy		
12.00-13.00	I	9490/9860/12010/15060
13.00-14.00	I	9490 & 25/19 m.b.
23.30-24.00	I	12055/15060 & 31 m.b.
Arabic		
16.30-17.30	II	40/31/25/19 m.b.
18.30-19.30	II	15030 & 40/31/25 m.b.
19.30-20.30	II	6620/6645 & 40/31 m.b.

Burmese	Areas	kHz/m.b.
00.30-01.00	I	31/25/19 m.b.
11.30-12.00	I	11980/15030 & 31 m.b.
13.00-13.30	I	1190
14.00-14.30	I	42/31/25/19 m.b.
14.30-15.00	I	1190
Cantonese		
01.00-02.00	III	11100/11445/11650/12010/12110/15095/15200/17720
03.00-04.00	IV	11690/12010/15080/15355/17735
10.00-11.00	V	7150/12010/12110/15080 & 30 m.b.
11.00-12.00	I	7150/7620/9490/12010/12110/15080/15255
17.00-18.00	VI	15060 & 42/30/25 m.b.
23.00-23.30	I	6590/7035/7335/9945/11820/15030/15080
Cambodian		
10.30-11.00	I	9457/15030 & 25 m.b.
12.00-13.00	I	1300/8245/9457/11980/15030
14.30-15.00	I	8245/12055/15030 & 42/31 m.b.
Chaochow		
00.30-01.00	I	12010/15080
14.00-15.00	I	41/31/25 m.b.
Czech		
19.00-19.30		9457/11445(Tues, Fri, Sun only)
Esperanto		
20.00-20.30	VII	6620/6645/7075/9860(Fri & Sat only)
French		
06.00-08.00		15200 & 16 m.b.
18.30-19.30	VI	6325/6825/7025/7315/9340/9920/11610/11965/15060/15095
19.30-20.30	VI	6325/6560/6825/7025/9340/9365/9920/15095 & 25 m.b.
20.30-21.30	VII	6325/6825/7010/7055/7315/9340/9920/11610/11965/15095
21.30-22.30	VII	6325/6825/7010/7055/7315/9340/9365/9920/11690/15095
German		
18.00-19.00	VII	6290/7005/7075/9972 & 32 m.b.
20.00-21.00	VII	6890/7005/9972/12065 & 32 m.b.
Hakka		
00.00-00.30	I	15080 & 25/31 m.b.
10.00-11.00	I	7080/9860/15255 & 25 m.b.
17.00-18.00	VIII	1190
Hausa		
19.00-19.30	VI	31/24/19 m.b.
21.00-21.30	VI	15030 & 31/24 m.b.
Hindi		
15.00-16.00	VIII	1190/11690/15060 & 42/30 m.b.
16.00-17.00	VIII	11690/15060 & 42/30 m.b.
Indonesian		
05.00-05.30	I	15060/15080
08.30-09.00	I	11820/15080
09.00-10.00	I	11740/11820/12055/15030/15080/15095
10.30-11.30	I	5545/8245/9920/11590/11720/12055/15060/15095
12.00-12.30	I	5545/9365/15080 & 25 m.b.
13.00-13.30	I	5545/8245/9945/11945/15080
14.00-14.30	I	5545/8245/11590/12055 & 30 m.b.
22.00-22.30	I	8245
23.30-24.00	I	8245/11720/15080 & 30 m.b.
Italian		
19.00-19.30	VII	41/31/25 m.b.
20.00-20.30	VII	41/31/25 m.b.
21.00-21.30	VII	7005/7720/9860/12110
Japanese		
09.30-15.30	IX	1040/3955/4960/6955/7480/9965
21.30-22.00	IX	1040/3955/4960
Korean		
09.00-10.00	IX	1020/4020/5975
10.00-12.00	IX	1020/4020/5975 & 41 m.b.
12.00-12.30	IX	1020/4020/5975/7150
13.30-14.00	IX	1020/4020/5975 & 41 m.b.
Laotian		
00.00-01.00	I	11860 & 31/19 m.b.
11.00-11.30	I	1190/1300/11980/15030 & 31 m.b.
13.00-14.00	I	11980 & 42/31 m.b.
14.30-15.00	I	1300
Malay		
10.00-10.30	I	12055/15095
13.00-14.00	I	41/31/25/19 m.b.
14.30-15.00	I	41/31/25/19 m.b.
Persian		
15.30-16.00	II	40/31/25 m.b.
18.00-18.30	II	40/31/25 m.b.
Polish		
19.00-19.30		9457/11445(Wed & Sat only)
Portuguese		
00.00-01.00	X	9457/9860/11690/12055
19.00-20.00	VI	42/31/25/19 m.b.
20.00-21.00	VII	6410 & 41/31/25 m.b.
22.00-23.00	X	9457/9860/12055
Rumanian		
19.00-19.30		9457/11445(Mon & Thurs only)
Russian		
03.00-03.30	XI	12110/15380
03.30-04.30	XI	12110/15200/15380
04.30-05.00	XI	12110/15380
06.00-08.30	XI	15060
09.00-10.00	XI	11945/15500
10.00-11.00	XI	5860/6025/6290/7035/7380/7620/9400/9490/9945/11445/11650/11790/11945/15500

Russian	Areas	kHz/m.b.
11.00-12.00	XI	5860/6025/7380/7620/9365/9480/9945/11435/11650/11945/15500
12.00-13.00	XI	1525/7035/7380/15500 & 30/25 m.b.
13.00-14.00	XI	1525
14.00-15.00	XI	1313/1525
15.00-18.00	XI	1525/5145/5860/6590/7035/7335/7620/7820/9365 & 33 m.b.
18.00-20.00	XI	1525/5145/5860/6225/6590/7035/7335/7620/7820/9365/11290 & 33 m.b.
20.30-21.30	XI	1525
21.30-22.30	XI	5145/5860/6590/6645/6995/7035/7620/7820/9380 & 30 m.b.
22.30-23.30	XI	6290/6610/6645/6955/11690/12010 & 31 m.b.
17.00-23.30		also on 4110/4220/4500(Urumchi, Sinkiang st)
Serbo-Croat		
19.30-20.00	VII	9860/12055 & 48 m.b.
21.30-22.00	VII	6560/6890/9860/12055
Spanish		
23.00-01.00	XII	9340/9457/11445/11610/12110/15060/15095/15200/17715/17745/21480/21600 also on 7120/9507 (R. Tirana relay)
01.00-03.00	XIII	9340/11610/11690/11820/15080/15165/15185/15380/17650/17745/17855/21480/21600 also on 7120/9507(R. Tirana relay)
20.30-21.30	VII	6560 & 41/31 m.b.
Standard Chinese		
02.00-03.00	III	11100/11445/11650/12010/12110/15095/15200/17720
04.00-05.00	IV	11690/12010/15080/15355/17735
09.00-10.00	V	12010/15255 & 31 m.b.
13.00-14.00	I	12010/15060 & 42/31 m.b.
15.00-16.00	VIII	42/31/25 m.b.
17.30-18.30	VI	42/31/25 m.b.
20.00-21.00	VII	42/40/31/25 m.b.
22.30-23.00	I	6590/7035/7335/7620/9457/11820
Swahili		
16.00-16.30	VI	41/31/25/19 m.b.
17.00-17.30	VI	41/31/25/19 m.b.
Tagalog		
12.00-12.30	I	7060
Tamil		
14.30-15.00	VIII	42/31/25 m.b.
16.30-17.00	VIII	42/31/25 m.b.
Thai		
11.30-12.00	I	1190/9457/15080 & 25 m.b.
13.30-14.30	I	1190/9457/15080 & 42/25 m.b.
23.30-00.30	I	12010 & 31 m.b.
Turkish		
17.30-18.00	II	11690 & 40/31 m.b.
19.30-20.00	II	15030 & 40/31/25 m.b.
Vietnamese		
22.30-23.30	I	1190/1300/6890/7060 & 30/25 m.b.
11.30-12.00	I	1300/5545/8245/9945/11720/15095
12.30-13.00	I	8245/9945/12055
13.00-13.30	I	1300/12055/15030 & 31 m.b.
13.30-14.30	I	1300/8245/9945/11720/15030 & 42 m.b.
15.00-15.30	I	9340/15080 & 42/25 m.b.

ANN: E: "This is Radio Peking". F: "Ici Radio Pekin". G: "Hier ist Radio Peking". P: "Aqui Pequim". R: "Govorit Pekin". Sp: "Aqui Pekin".

LOCAL & PROVINCIAL STATIONS

City, Province	kHz
Amoy, Fukien	1115
Amoy, Foochow area	590, 685, 750, 1090, 1198, 1295, 1480, 1510 (all carry HS prgr. to Taiwan)
Anhwei Province	1175
Anking, Anhwei	1440
Anshan, Liaoning	950
Antung, Liaoning	890, 1400
Canton, Kwangtung	
local	790, 890, 1400
provincial	1060, 1340
Changchih, Shansi	1490
Changchow, Fukien	1210
Changchow, Kiangsu	1520
Changchun, Kirin	
local	1330, 1450
provincial	585
Changkiakow, Hopeh	780
Changsha, Hunan	
local	1568
provincial	1230, **4990**
Changtc, Hunan	1570
Changyeh, Kansu	1490
Chengchou, Honan	
provincial	1420
Chengteh	850
Chengtu, Szechwan	
local	750
provincial	1220, **3245, 5933**
Chiamussu, Heilungkiang	670, 1590
Chiaotso	1560
Chifeng, Inner Mongolia	1580, **3930**
Chihsi	1530
Chinchow, Liaoning	910, 1410
Chingtechen	1482
Chining	1540
Chinwangtao, Hopeh	1050, 1370
Chiuchiang	1560
Chuchow Chekiang	1400
Chungking, Szechwan	1095, 1310
Foochow, Fukien	
provincial	580, 880, 1330, 1430, **2200, 2340, 4975, 7165**
Fouhsin	1470, 1590
Fukien area	820, 860, 930, 950, 1010, 1020, 1310, 1540, **2430, 2600, 2800, 3200, 3400, 3535, 3900, 4380, 5170, 5240, 5900, 6398, 8195**
Fukien province	1050
Fushun, Liaoning	850, 1520
Haikou, Hainan Isl. Kwangtung	950
Hailar, Inner Mongolia (B)	1430, **3900, 6080**
Hanchung, Shensi	1350
Hangchow, Chekiang	
local	1350
provincial	810, **2475**
Hantan, Hopeh	1370
Haokang	1410
Harbin, Heilungkiang	
local	660, 967
provincial	272, 620, 840, 1105, 1110, 1115, 1120, 1690, **2690**
Hengyang, Hunan	1350
Hofei, Anhwei	
local	1270
provincial	940, 1490
Hotso, Tibet	1330
Hsiangtan, Hunan	1500
Hsinhsiang	1050
Hsinyang, Honan	920
Hsuchow, Honan	1450
Huainan	1570
Huhehot, Inner Mongolia	
(A)	1460, **4069, 6975**
(B)	675, 1510, **3970, 4750, 5990, 6840**
local	1580, **3930**
Hwaiyin	1530
Hwangshih, Hupeh	1480
Ichun, Kiangsi	910
Kaifeng, Honan	930
Kanchou, Kiangsi	1270
Kiangsu Province	1350
Kirin	930, 1490
Kirin Province	1130
Kueilin, Kwangsi	1450
Kunming, Yunnan	
provincial	820, 1380, **4785, 6937, 9990**
Kweiyang, Kweichow	
provincial	620, 1030, **3260**
Lanchow, Kansu	
local	1400, **7883**
provincial	860, **3365, 6155, 7323**
Lhasa, Tibet	
provincial	590, **4035, 5935, 9490, 11990** (inactive)
Liaoyuan, Liaoning	1290
Lienyunchiang, Kiangsu	1348
Liuchow, Kwangsi	1330
Luta, Liaoning	
local	690
provincial	830
Mutankiang	680
Nanchang, Kiangsi	
local	1310
provincial	835
Nanking, Kiansu	
local	820, 870
provincial	700
Nanning, Kwangsi	
local	1370
provincial	635, 1320, **5010**
Nantung, Kiangsu	1440
Nanyang, Honan	1360
Ningpo, Chekiang	890, 1470
Paicheng, Sinkiang	1320
Paoki, Shensi	1310
Paoting, Hopeh	
provincial	1470
Paotow, Inner Mongolia	
local	670, 1390
Penki, Liaoning	1050, 1300
Pingliang, Kansu	1550
Pingtingshan, Shansi	1590
Shanghai	795, 990, 1110, 1210,
Shanghai	1300, 1500
Shantung Province	970, 1360
Shaoyang, Hunan	1390
Shasi, Hupeh	1450
Shenyang, Liaoning	
local	690, 790, 1440
provincial	218, 1090
Shichiachung, Hopeh	1250
Shunangyashan	1100
Sian, Shensi	
local	690, 1370, 1490
provincial	960, **6176**
Silinhot	1330, **4525,**
Sinhailien, Kiangsu	1345
Sining, Chinghai	
local	1450
provincial	800, 1250, **3950, 6260, 6500, 9498**
Soochow, Kiangsu	1330
Ssuping	1130
Swatow, Kwantung	970
Taiyuan, Shansi	
local	1530
provincial	1125
Tangshan, Hopeh	
local	810
provincial	1440
Tatung, Anhwei	1370
Tengkou (Bayinor)	1270, **4000**
Tienshui	1270
Tientsin, Hopeh	
local	790, 870, 920, 1070, 1390, 1440, 1520
provincial	1280
Tinghai, Chowshan Isl. Chekiang	680
Tsinan, Shantung	
local	1310
provincial	920, 1270, **2350**
Tsingtao, Shantung	850, 1380
Tsitsihar, Heilungkiang	740, 850
Tsukung	1490
Tsunyi, Kweichow	1370
Tungchuan	1050, 1290
Tunghua, Kirin	910
Tunghiao, Inner Mongolia	
local	1350
Tungsheng	1360
Tuyun, Kweichow	1490
Ulan Hot, Inner Mongolia	
(A)	1380
(B)	1510, **4000**
Urumchi, Sinkiang	
(A)	560, 810, 850, 880, 890, 950, 970, 990, **3238, 3960, 4220, 4500, 5440, 5800**
(B)	630, 680, 700, 740, 870, **3350, 4110, 5355, 7385**
(C)	950, 970, 990, **3960, 4500**
Wenchow, Chekiang	1375, 1570, **2415**
Wuchou, Kwangsi	1410
Wuhan, Hupeh	
local	1110, 1375, 1590
provincial	770, **4980**
Wuhsi, Kiansu	1400
Wuhu, Anhwei	
local	1590
provincial	1490
Yangchow	1370
Yangchuan, Shansi	1590
Yenchi/Yongil, Kirin	1050
Yentai, Shantung	1450
Yinchuan, Ninghsia	
provincial	1130, 1290
Yingkow, Liaoning	1030

CHINA (Rep. of) (Taiwan)

L.T: GMT + 8 h (Su: GMT + 9 h) **Pr.L:** Chinese.

BROADCASTING CORPORATION OF CHINA
(Priv. enterprise under Gov. contract).
ADDR: Jen Ai Road, Taipei. **Te:** 770151. **Cable:** "Broadcast".
L.P: Pres: Lee Shih-feng. Dir. Eng. Dep: Shan-wei Wang.
STATION: Medium Waves (0.1/0.5/3.5/10/20/100/150kW):

Call	kHz	Call	kHz	Call	kHz
BED34	660	BED43	1060	BED65	1400
BED58	720	BED57	1070	BED54	1410
BED2	750	BED97	1100	BED80	1410
BED92	780	BED72	1120	BED67	1410
BED28	820	BED86	1160	BED48	1450
BED25	860	BED89	1160	BED82	1460
BED27	860	BED88	1170	BED81	1470
BED24	890	BED32	1190	BED29	1470
BED85	890	BED50	1200	BED83	1500
BED96	900	BED79	1220	BED64	1500
BED55	960	BED47	1280	BED78	1540
BED62	1000	BED63	1350	BED77	1600
BED53	1020	BED23	1380		
BED26	1040	BED87	1390		

Short Waves: (G.C: 121.24E/25.09N): 1/1.5/3/3.5/7.5/10/25/35/50/100 kW.

Call	kHz	m	Call	kHz	m	Call	kHz	m
BED59	3215	91.31	BED33	9630	31.15	BED90	11940	25.13
BED31	3230	92.88	BED42	9660	31.06	BED37	11970	25.06
BED20	3335	89.96	BED73	9685	30.98	BED60	15125	19.83
BED30	5980	50.17	BED22	9690	30.96	BED36	15280	19.63
BED9	6040	49.67	BED66	9765	30.72	BED38	15320	19.58
BED7	7130	42.08	BED91	9655	31.07	BED49	15345	19.55
BED35	7150	41.96	BED75	11725	25.59	BED93	15370	19.52
BED70	7185	41.75	BED69	11825	25.37	BED39	17720	16.93
BED21	7250	41.38	BED45	11860	25.30	BED95	17780	16.88
BED91	9575	31.33	BED44	11905	25.20	BED40	17890	16.77

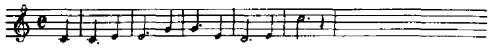
HOME SCE. in Chinese:
1st Netw: 660kHz 21.00-17.10 — **2nd Netw:** 960kHz 21.00-22.00, 00.00-02.00, 03.55-16.00 — **3rd Netw:** 890kHz 21.00-01.00, 04.00-15.00.

FOREIGN SCE: Schedule November-February.

English	kHz	French	kHz
02.00-03.50*	7130, 15125, 15345, 17720 17780, 17890	17.00-18.00***	9685, 9765, 11825, 15125, 17720, 17890
02.00-03.50**	11825	**Japanese**	
10.30-11.00**	11825	06.40-07.10	15125, 17720 17780
18.00-19.00***	9685, 9765, 11825, 15125, 17720, 17890	09.50-10.20	7130, 9685, 11825, 11860, 15370

Korean	kHz	Chinese	kHz
09.20-09.50	7130, 9685, 11825, 11860, 15370	04.00-04.30a	11825, 15345, 17890
23.30-24.00	9685, 11825	04.30-05.30d 05.30-06.30c	7130, 9575, 11825, 15125, 15345, 17720, 17890
Thai			
12.00-12.30	7130, 9685, 11825, 15370, 17890	06.30-07.00b 07.00-07.30e	7130, 11825, 15345, 17890,
		12.30-13.00e 13.00-13.30a	7130, 9685, 11825, 15370, 17890
Vietnamese			
11.00-11.30	7130, 9575, 9685, 15370 17890	13.30-14.00b	9685, 11825, 15370, 17890
		14.00-15.00d	7130, 9685, 11825, 15370 17890
Malay			
04.00-04.30	7130, 9575, 15125, 17720	15.10-16.10c	7130, 9685, 9765, 11825, 15125, 15370 17720, 17890
11.30-12.00	7130, 9685, 11825, 15370, 17890	21.00-23.00c**	11825, 15345

*) to No. America/Japan — **) to Australia/New Zealand — ***) to Africa/Middle East — ") relayed by KBS for Vietnam — a) Amoy; b) Hakka; c) Mandarin; d) Cantonese; e) Chaochow.
NEWS: English: 02.03, 02.30, 02.55, 03.20, 18.03, 18.30; **French** 17.00; **Indonesian** 04.07, 11.37; **Japanese** 06.40, 09.50; **Korean** 09.20; **Thai** 12.00; **Vietnamese** 11.00.
ANN: Home Sce: "This is BCC the 1st (2nd, 3rd . . . .) netw. (in Chinese)". For Overseas: "This is the Voice of Free China (A call of Freedom in Asia)".
INT-SIG:



V. by letter or QSL-card. Re. in English and Chinese. Recordings accepted — **PUB:** Prgr. sched. free — **ALF:** NT $30.00.

DEPARTMENT OF POSTS AND TELECOMMUNICATIONS

Ministry of Communications is a gov. authority responsible for determining power, frequency and supervising operations of all gov. and priv. radio and TV stations.
ADDR: No. 2, Sec. 1, Changsha Street, Taipei. **Te:** 23901-523.

CHENG SHENG BROADCASTING CORP. (Comm.)

ADDR: 433 Chungking North Rd, Sec. 3, Taipei. **Te:** 48281.

Call	kHz	kW	Call	kHz	kW	Call	kHz	kW
1) BEC34	820	1	3) BEV59	850	1	6) BEV60	1020	1
2) BEC35	1340	1	4) BEV36	1130	1	7) BEV37	1270	1
3) BEV58	1230	1	5) BEV72	930	1			

1) Cheng Sheng, The First Dept, Taipei — 2) Cheng Cheng, The Second Dept, Taipei — 3) BEV58: The Farmers Broadc. St, First Dept, Taichung. BEV59: The Farmers Broadc. St, Second Dept, Taichung — 4) Yun Lin Broadc. St, Yun-Lin — 5) Kung Yi Broadc. St, Chiayi — 6) Cheng Yen Broadc. St, Kaohsiung — 7) Cheng Tung St, Taitung.
HOME SCE: 1) 21.00-18.00. **N:** Mandarin: Every h on the h — **V.** by letter. Recordings accepted.

CHINA YOUTH BROADCASTING STATION (Gov.)

ADDR: 131 Duen Huah Rd, Taipei.
STATIONS: BEG 22 1150kHz 3kW — BEG20 7180kHz 41.78m 0.5 kW.
HOME SCE. in Chinese: 21.00-01.00, 03.00-07.00, 09.30-15.30.
ANN: "This is the Voice of Youth" (in Chinese only) — **V.** by letter.

FU HSING BROADCASTING STATION (Gov.)

ADDR: P.O. Box 799, Taipai. **Te:** 942448 — **L.P:** Dir. Gen: T. Pin-Sun. Dir. Public Rel: H. Kang-Lin.
HOME SCE. in Mandarin: Taipei: 20.50-17.10 on 590/1090/1510kHz (BEH4/6/8), 20.50-17.10 on 910kHz (BEH10) — **Taichung:** 20.50-02.05, 02.50-06.05, 08.20-17.05 on 910/1090/1510kHz (BEH32/33/35) — **Kaohsiung:** 20.50-02.05, 02.55-06.05, 08.25-17.05 on 590/910/1090/1510kHz (BEH42/43/44/45) — **Taitung:** 20.50-02.05, 02.50-06.00, 08.20-17.05 on 1510kHz (BEH52) — **Hualien:** 20.50-02.05, 02.55-06.05, 08.25-17.05 on 1090kHz (BEH56) — **Hsinchu:** 20.50-02.05, 02.50-06.05, 08.20-17.10 on 910/1090/1510kHz (BEH62/63/64) — **Ilan:** 20.50-02.05, 02.55-06.00, 08.25-17.00 on 930kHz (BEH53) — **Sun-Moon-Lake:** 20.50-02.05, 02.55-06.00, 08.20-17.10 on 1090kHz (BEH34).
ADDR: 209 Pietwen, Taichung; 195 Fu Hsing 2nd Rd, Kaohsiung; 11 Shengli Lane, Po Ai Rd, Taitung; 111 Peipin Str, Hualien; 526-3 Kuang Fu Rd, Hsinchu; 50 Nu-chung Rd, Ilan – 82 Mingsheng Lane, Sun Moon Lake.

POLICE BROADCASTING NETWORK (Gov.)

ADDR: No. 1, Tientsin St, Taipei. **Te:** 24761.
HOME SCE: W 21.15-16.00. Sun 23.30-17.00.

	Call	kHz	m	kW		Call	kHz	m	kW
Taipei	BEP22	1260	238	10	Changwa	BEP24	680	441.2	1.5
	BEP23	5960	50.34	1	Kaohsiung	BEP25	1120	267.8	1.5
Hsinchu	BEP26	1120	267.8	1.5					

N: 21.30, 23.30, 01.30, 03.30, 04.30, 05.30, 06.30, 07.30, 08.30, 13.30, 15.30 — **ANN:** "This is Police Broadc. St" (in Chinese only) — **V.** by letter.

THE VOICE OF RIGHTEOUSNESS

ADDR: 210 Chi-San-Yen, Shih Lin, Taipei County, Taiwan.
STATIONS (G.C: 121.31E/25.03N): BEC78 620kHz 1kW — BEC77 5995kHz 50.04m 3kW — BEC76 7200kHz 41.67m 10kW.
HOME SCE. in Chinese: 20.55-24.00, 11.00-17.40 — **V.** by letter. Re. in Chinese or English.

LISTEN TO
VOICE OF FREE CHINA
International Service
BROADCASTING CORPORATION OF CHINA
Taipei, Taiwan, Republic of China
for
fast and comprehensive coverage
of
THE FAR EAST
FREQUENCIES:

7130-Kc	11860-Kc
9655-Kc	15125-Kc
9685-Kc	15345-Kc
9765-Kc	17720-Kc
11725-Kc	17780-Kc
11825-Kc	17890-Kc

MILITARY BROADCASTING STATIONS (Gov.)

ADDR: Military Broadc. Corps, Ministry of National Defense, Taipei. The Military Broadc. Corps. and the Air Force Broadc. St. are two different organizations. The first belongs to the Political Dept. and Ministry of National Defense, the latter to Headquarters of Chinese Air Force. They are without any relationship in their adm. and service.

STATIONS:

	Call	kHz	m	kW		Call	kHz	m	kW
1)	BEC22	1100	272	1.5	4)	BEC32	690	434.8	1.5
	BEC23	1520	197.4	3	5)	BEC33	1350	222.2	1.5
	BEC24	**7280**	**41.21**	**1.5**		**BEC34**	**7270**	**41.27**	**1.5**
2)	BEC25	700	428.6	3	6)	BEC35	770	389	0.5
	BEC26	**6090**	**49.26**	**3**		BEC36	1330	225.6	1.5
3)	BEC27	1290	232	1.5		**BEC37**	**5985**	**50.13**	**1**
	BEC28	**7240**	**41.44**	**1.5**	7)	BEC38	840	357.1	0.3
4)	BEC29	1250	240.0	1.5		BEC39	1490	201.34	3

1) No. 3 Section 1, Hsinyi Road, Taipei: 22.00-24.00, 03.00-07.00, 09.00-16.00 — 2) Lanyealif, Shyhlin, Taipei: 22.00-03.00, 09.00-17.30 — 3) No. 3, Shyhfun Rd, Taichung: 22.00-03.00, 09.00-16.00 — 4) No. 101, Third Jengieng Rd, Kaohsiung — 5) No. 38 Sanmin Str, Hualien: 22.00-24.00, 03.00-07.00, 09.00-17.00 — 6) No. 40, New Mingdertsuen, Tsoying: 22.00-24.00, 03.00-07.00, 09.00-17.00 — 7) No. 14, Minsheng Rd Maagong, Penghwa.

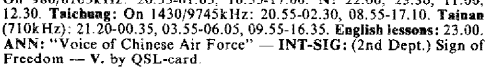
AIR FORCE BROADCASTING STATION (Military)

ADDR: 1st and 2nd Dept: 44 Section 2, Jen Ai Rd. Taipei. **Te:** 28981.

STATIONS: (System: RCA):

BEC70	980kHz 306.1m 3.5kW	BEC72	710kHz 422.5m 1.5kW
BEC60	1440kHz 208.3m 1 kW	BEC71	7260kHz 41.32m 3.5kWd
BEC61	6105kHz 49.14m 7.5kWd	BEC62	9745kHz 30.76m 3.5kWd

HOME SCE. in Mandarin: Taipei (Main st.): 1st Dept: On 1440/7260kHz: 21.00-01.05, 03.55-06.45, 09.55-17.00. **N:** 23.00, 05.00, 10.30, 12.00, 14.00. **English lessons:** 22.00. **English Songs:** 11.00 — 2nd Dept: On 980/6105kHz: 20.55-01.05, 10.55-17.00. **N:** 22.00, 23.30, 11.00, 12.30. **Taichung:** On 1430/9745kHz: 20.55-02.30, 08.55-17.10. **Tainan** (710kHz): 21.20-00.35, 03.55-06.05, 09.55-16.35. **English lessons:** 23.00. **ANN:** "Voice of Chinese Air Force" — **INT-SIG:** (2nd Dept.) Sign of Freedom — **V.** by QSL-card.



PUB: Prgr. schedule free on request.

ARMED FORCES NETWORK TAIWAN (U.S. Armed Forces)

ADDR: AFNT, Box 25, APO San Francisco, Calif. USA, 96263. **Te:** 88-6428 or Mil/GM 146 — **L.P:** Officer-in-charge: Lt. B. H. Schneider, USN. Dir. Prgr's: J. M. Brooks, DNC. Dir. Eng: R. W. Henning, DNC.

STATIONS (mw 5kW, sw + FM 1kW): 1560kHz 192m — 100.1MHz 3990kHz 75.19m — 7215kHz 41.58m (G.C: 121.26E/25.06N).

Relay st's: Taichung 1580kHz 1kW — Tainan 1590kHz 1kW.

HOME SCE. in English: 24 h (exc. Sun 19.00-19.55) — **N:** every h on the h — **ANN:** "This is the Armed Forces Network Taiwan (Taipei, Tainan, Taichung)" — **V.** by QSL-card. Recordings accepted.

HONG KONG (British)

L.T: GMT + 8 h (Apr-Oct GMT + 9 h) — **Pr.L:** Chinese.

RADIO HONG KONG (Gov.)

ADDR: P.O. Box 200, Hong Kong. **Te:** 226822 — **Cable:** Broadcast — **L.P:** Dir. of Broadc: D. E. Brooks. Dep. Dir. of Broadc: I. D. Kingsley. Secr: E. A. Fisher, E.D. Chief Eng: R. Winyard. Head. Chinese Sce: N. Y. Chow. Head. English Sce: T. A. Birch.

STATIONS: *) Chinese Sce. **) English Sce.

*640kHz 468.8m 20kW — **860kHz 348.8m 20kW — **91Mc 50kW — 94Mc 50kW.

HOME SCE: English: 23.00-16.00 — **N:** 00.00, 05.30, 10.00, 12.00°, 12.30 — **Wrp:** 23.58, 05.28, 11.58, 15.30 — °Rel. Far Eastern St. from London.

ANN: English: "This is R. Hong Kong". Chinese: "Ni do hai Heung Kong Kwong bor deen toy" — **V.** by QSL-card. Recordings accepted.

HONG KONG COMMERCIAL BROADCASTING CO. LTD.

ADDR: P.O Box 3000, Hong Kong. **Te:** 236223. **Cable:** Radioads. **L.P:** Man. Dir: G. Ho. Dir. Tec: W. S. Ip.

STATIONS: 1050kHz 2kW & 1170kHz 2kW: Cantonese. 1530kHz 2kW: English.

HOME SCE (on all freq's): 23.00-16.00.

English: N: 23.00, 00.00, 01.00, 03.00, 04.00, 05.15, 07.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00 **Wrp:** 23.05, 00.10, 01.02, 03.02, 04.02, 05.25, 07.02, 10.02, 11.02, 12.02, 13.02, 14.02, 15.02, 16.02.

Cantonese: N: 23.00, 00.00, 01.00, 03.00, 04.00, 05.15, 07.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 15.58 — **Wrp:** 23.10, 23.30, 00.10, 00.25, 00.45, 01.00, 03.00, 03.15, 05.15, 06.15, 08.00, 10.30, 13.00, 13.30, 14.59, 15.00, 16.00 — **L.L** (English): W 10.45-11.00.

ANN: E: "Commercial Radio Hong Kong" — **INT-SIG:** Chimes — **V.** by letter. Recordings accepted.

REDIFFUSION (HONG KONG) LTD.

A subsidiary of Rediff. Ltd. London (Comm.) — **Addr:** P.O. Box 121, Hong Kong. **Cable:** Rediffuse. **Te:** 72-2211. **L.P:** Gen. Mgr: R. J. Warren. Man. Dir: G. H. Oldridge. Comm. Mgr: J. Sloan. Chief Eng: A. T. B. Bardens F.I.E.E., M.I.E.R.E. Dir. in Charge (Chinese Prgr): R. C. W. Chung. Contr. English Prgr: W. P. Sanderson — 4 simultaneous wired broadc. netw's. Originating own prgr's, also relay R. Hong Kong, BBC, etc: D 22.00-15.00.

INDIA

L.T: GMT + 5½ h — **Pr.L:** Hindi, Marathi, Oriya, Bengali, Assamese, Tamil, Telugu, Urdu, Kannada, Kashmiri, Sanskrit.

ALL INDIA RADIO (Gov.)

ADDR: Directorate General, Akashvani Bhavan, Parliament Str, New Delhi 1. **Te:** 30101. **Cable:** Airgeneral.

L.P: Dir. Gen: Dr. V. K. Narayana Menon. Dep. Dir. Gen. (Prgr): A. K. Sen. Dir. Prgr: V. Krishnamurti. Dept. Dir. Gen (Adm): S. N. Pandita. Dep. Dir. Gen (Inspection): Miss M. Masani. Chief Eng: S. S. Aiyar. Dir. News Sce: R. K. Chatterjee. Dir. External Sce: P. C. Chatterji. Dir. Staff Training: R. Chander. Dir. Listeners Research: S. C. Parashar. Dep. Dir. Gen (Comm. Broadc): H. R. Luthra.

STATIONS: Medium Waves:

North Regional	**kHz**	**m**		**kHz**	**m**
Delhi A	810	370.4	Sangli	1250	240.0
Delhi B	1020	294.1	Bhuj	1290	232.6
Delhi C	1370	219.0	**East Regional**	**kHz**	**m**
Delhi D	1570	191.1	Calcutta A	670	447.8
Lucknow A	760	394.7	Calcutta B	1130	265.5
Lucknow C	910	329.7	Calcutta C	1540	194.8
Allahabad A	950	315.8	Cuttack A	965	310.9
Allahabad B	1420	211.3	Cuttack B	1350	222.2
Jabalpur	1189	253.0	Gauhati A	730	411.0
Patna A	620	483.9	Gauhati B	1030	291.3
Patna B	1500	200.0	Kohima	1490	201.3
Jullundur A	710	422.5	Sambalpur	860	348.8
Jullundur B	1350	222.2	Siliguri	1560	192.3
Jaipur A	1480	202.7	Port Blair	1440	208.3
Jaipur B	1270	236.2	Imphal	1390	215.8
Jodhpur	820	365.9	Jeypore	1460	205.5
Ajmer	600	500.0	Shillong	1200	250.0
Indore A	650	461.5	Pasighat	1060	283.0
Indore B	1590	188.7	Agartala	1270	236.2
Bhopal A	1520	197.4	Aijal	920	326.1
Bhopal B	1200	250.0	Tezu	1330	225.5
Chandigarh	1220	246.0	**South Regional**	**kHz**	**m**
Ranchi	560	535.7	Madras A	720	416.7
Varanasi	1240	241.9	Madras B	1420	211.3
Bikaner	1330	225.6	Madras C	1550	193.5
Kanpur	1440	206.9	Tiruchi A	940	319.1
Raipur	1000	300.0	Tiruchi B	1480	202.7
Gwalior	1390	215.8	Tirunelveli	1200	250.0
Rampur	1320	227.3	Vijayawada A	840	357.1
Bhagalpur	1470	204.1	Vijayawada B	1500	200.0
Mathura	1570	191.1	Trivandrum A	660	454.5
Udaipur	1170	256.4	Trivandrum B	1140	263.2
West Regional	**kHz**	**m**	Calicut A	680	441.2
Bombay A	1040	288.5	Calicut B	1090	275.0
Bombay B	550	545.5	Trichur	580	517.2
Bombay C	1230	243.9	Hyderabad A	740	405.4
Nagpur A	670	447.8	Hyderabad B	1060	283.0
Nagpur B	660	454.5	Hyderabad C	1220	245.9
Ahmedabad A	850	352.9	Bangalore A	610	491.8
Ahmedabad B	1400	214.3	Bangalore B	820	365.9
Parbhani	1300	230.7	Dhawar A	1360	220.6
Poona A	780	384.6	Dhawar B	1160	258.6
Poona B	970	309.5	Vishakhapatnam	930	322.6
Rajkot A	1070	280.4	Cuddapah	900	333.3
Rajkot B	1420	211.3	Bhadrawati	800	375.0
Panjim (Goa)	880	340.9	Gulbarga	1110	270.3

Short Waves: Delhi VUD: 10/20/50/100kW (G.C: 77.12E/28.43N)

kHz	**m**	**kHz**	**m**	**kHz**	**m**	**kHz**	**m**
3295	91.05	9535	31.46	11790	25.45	15165	19.78
3365	89.15	9575	31.33	11805	25.41	15185	19.76
3905	76.82	9590	31.28	11810	25.40	15190	19.75
3925	76.43	9600	31.25	11815	25.39	15235	19.69
4760	63.03	9615	31.20	11820	25.38	15250	19.67
4860	61.73	9630	31.15	11845	25.33	15275	19.64
4960	60.48	9680	30.99	11850	25.32	15290	19.62
4990	60.12	9690	30.96	11855	25.31	15310	19.60
6040	49.67	9695	30.94	11865	25.28	15335	19.56
6050	49.59	9705	30.91	11875	25.26	15430	19.44
6190	48.47	9730	30.83	11885	25.24	17705	16.94
7105	42.22	9740	30.80	11895	25.22	17715	16.93
7120	42.11	9765	30.72	11910	25.19	17740	16.91
7125	42.11	9912	30.27	11920	25.17	17780	16.87
7165	41.87	10335	29.03	11925	25.16	17800	16.85
7195	41.70	11620	25.82	15080	19.89	17830	16.83
7215	41.58	11710	25.62	15105	19.86	17845	16.81
7225	41.52	11715	25.61	15125	19.83	17850	16.81
7255	41.35	11740	25.55	15130	19.83	21580	13.90
7285	41.18	11755	25.52	15135	19.82	21615	13.88
7290	41.15	11760	25.51	15140	19.82		
9525	31.50	11765	25.50	15155	19.80		
9530	31.48	11775	25.48	15160	19.79		

Lucknow (No. Reg. Sce) 10kW: 3205kHz 93.60m — 4880kHz 61.48m — 6170kHz 48.62m — 7250kHz 41.38m.

Simla (No. Reg. Sce) 2.5kW: 3223kHz 93.09m 4760kHz 63.03m — 6020kHz 49.83m.

Bhopal (No. Reg. Sce) 10kW: 3315kHz 90.50m — 4990kHz 60.12m — 5990kHz 50.08m — 7180kHz 41.78m.

Madras (So. Reg. Sce) VUM 4920kHz 60.98m — 7160kHz 41.90m — 9590kHz 31.28m (10kW) — 100kW: 6085kHz 49.30m — 7260kHz 41.32m — 9510kHz 31.55m — 9750kHz 30.77m — 15335kHz 19.56m.

आकाशवाणी

ALL INDIA RADIO

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Europe
Africa
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NEWS, TALKS, COMMENTARIES, MUSIC, PLAYS

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PROGRAMME SCHEDULES ARE AVAILABLE ON REQUEST FROM

THE DIRECTOR OF EXTERNAL SERVICES

ALL INDIA RADIO

POST BOX 500
NEW DELHI (INDIA)

Hyderabad (So. Reg. Sce) 10kW: 3355kHz 89.42m — 4800kHz 62.50m — 6120kHz 49.02m — 7140kHz 42.02m — 9720kHz 30.86m.
Bombay (West Reg. Sce.) VUB 3295kHz 91.05m — 4840kHz 61.98m — 6150kHz 48.78m — 7240kHz 41.44m (all 10kW) — 100kW: 7120kHz 42.13m — 9575kHz 31.33m — 11870kHz 25.27m — 11965kHz 25.07m — 15080kHz 19.89m — 17705kHz 16.94m.
Calcutta (Ea. Reg. Sce.) VUC (10kW): 3305kHz 90.77m — 4820kHz 62.24m — 6010kHz 49.92m — 7210kHz 41.61m.
Gauhati (Ea. Reg. Sce.) 10kW: 3235kHz 92.74m — 3375kHz 88.89m — 4775kHz 62.84m — 4940kHz 60.73m — 5970kHz 50.25m — 6130kHz 48.94m — 7150kHz 41.96m — 7280kHz 41.21m — 9530kHz 31.48m.
Kurseong (Ea. Reg. Sce.) 10kW: 3355kHz 89.42m — 4895kHz 61.29m — 7230kHz 41.49m.
Kohima (Ea. Reg. Sce.) 2kW: 4850kHz 61.86m — 6065kHz 49.46m — 7170kHz 41.84m.

HOME SERVICES

NORTH REG. SCE: Delhi A: 01.00-18.30 on 810/3365/6190/7290kHz (sw's variable). **Delhi B:** 02.20-17.30 on 1070/3365/3905/6190kHz (sw's variable). **Delhi C:** 14.15-15.30 on 1370/3905kHz. **Delhi D:** 13.00-15.00 on 1570/3365/4760kHz (sw's variable). **Lucknow:** 01.00-17.10 on 760/1320/3205/4880/6170/7250kHz (sw's variable). **Simla:** 01.00-16.30 on 3223kHz. **Bhopal:** 01.00-17.10 on 1520/3315/7180/5990kHz (sw's variable).
SOUTH REG. SCE: Madras A: 00.30-17.30 on 720/4920/9590kHz (sw's variable). **Madras B:** 01.30-17.05 on 1420/4920kHz (sw variable). **Hyderabad:** 01.00-17.10 on 740/4800/7140/9720kHz (sw's variable).
WEST REG. SCE: Bombay A: 01.30-17.30 on 1040kHz. **Bombay B:** 00.30-17.30 on 550/4840/7240/9550kHz (sw's variable).
EAST REG. SCE: Calcutta A: 00.30-17.30 on 670/4820/7210/9530kHz (sw's variable). **Calcutta B:** 01.00-17.05 on 1130kHz. **Gauhati A:** 00.30-17.05 on 730/3375/4940/5970/7280kHz (sw's variable). **Gauhati B + C:** 01.00-17.10 on 1030/3235/4775/7150kHz (sw's variable). **Kurseong:** 01.25-17.10 on 4895/7230/3355kHz. **Kohima:** 01.00-16.00 on 1490/4850/6065/7170kHz (sw's variable).
HOME NEWS in English (on shortwaves):
01.10-01.15: On 3365/4960/6040/7105/7125/9525/9590/11875kHz (Delhi).
02.30-02.45: On 6050/7105/7195/7225/9530/9705/11710/11850/15310kHz (Delhi), 4760 (Simla), 5990 (Bhopal), 4920 (Madras), 7140 (Hyderabad), 5970 (Gauhati), 5960 (Jammu), 4860kHz (Srinagar), 4850kHz (Kohima).
08.00-08.10: On 7290/9705/11715/11910/15105/15185/17740/17800kHz (Delhi), 9590 (Madras), 9720 (Hyderabad), 7170 (Kohima).
15.30-15.45: On 3295/3925/4760/4860/7195/7255/7285/9765/10335/11855kHz (Delhi), 3223 (Simla), 3315 (Bhopal), 4920 (Madras), 4800 (Hyderabad), 3235 (Gauhati), 3345 (Jammu), 3277 (Srinagar), 3355 (Kurseong), 4850 (Kohima) & 9575kHz (Bombay 100kW).
17.00-17.05 (Sat 17.30-17.35): On 3295/3925/4760/7195/7255/9765/11855/10335kHz (Delhi).

ALL INDIA VARIETY PRGR. (Vividh Bharati)

Short Wave Sce. (Bombay & Madras 100kW):
01.30-03.00 on 7120kHz (B), 01.30-04.00 & 08.30-10.15 on 7260 (M)/9510 (M)/9575kHz (B), 04.45-07.00 on 9510kHz (M), 10.30-12.00 on 11870kHz (B), 10.30-11.00 on 9750kHz (M), 13.00-15.00 on 9575kHz (B), 13.00-17.10 (Sat 17.40) on 6085kHz (M).
Urdu Prgr. (from Delhi): 03.00-05.30 on 9575kHz, 08.30-11.30 on 11790kHz, 15.00-19.00 on 710/3365kHz.

EXTERNAL SERVICES

* = Madras; ** = Bombay; Others New Delhi.

GENERAL SERVICE (for Indians Overseas):

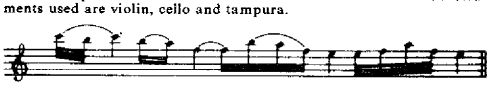
So. East Asia	L	kHz	Beam	N
23.15-00.15	Hindi	9530	132°	23.20-23.30
00.15-01.00	Tamil	11875	136°	00.20-00.30
11.30-12.30	Tamil	15335*	110°	
East Africa				
03.30-04.15	Hindi	15130	224°	03.35-03.45
04.15-04.30	Gujerati	17705**	250°	04.15-04.30
04.30-04.40	Konkani			04.30-04.40
15.46-16.15	Swahili	15105/17845	224°/245°	
16.15-17.00	Hindi	15080**	250°	16.20-16.30
17.00-17.45	Gujerati	17845	245°	17.00-17.10
EASTERN SERVICE				
Nepal				
01.30-02.15	Nepali	6050	nd	
		7225/9630	102°/102°	02.00-02.10
06.30-07.00	Nepali	9705	nd	
		11715/15185	102°/102°	06.30-06.40
Burma				
00.40-01.15	Burmese	9765/11790	132°/102°	00.41-00.50
11.15-12.15	Burmese	15105/17780	125°/102°	11.16-11.25
Thailand				
11.40-12.00	Thai	17705/21580	132°/102°	11.45-11.55
China				
11.45-12.30	Cantonese	11885/15160	44°/68°	11.46-11.55
12.30-13.15	Kuoyu	11885/15160	44°/68°	12.31-12.40
Bhutan, Sikkim				
03.15-03.30	Tibetan	11925/15160		03.16-03.21
12.30-13.15	Tibetan	9705/11850	102°	12.45-12.55
Indonesia				
08.45-09.45	Indonesian	15290	125°	
		17715	132°	08.46-08.55
East Asia				
11.15-11.30	French	17705/21580	132°/102°	11.16-11.25
Ceylon				
12.45-13.15	Sinhala	15430/17715		12.50-12.57
WESTERN SERVICE				
Afghanistan				
02.45-03.00	Pushto	9575/7225	nd	02.50-03.00
07.00-07.30	Pushto	11765/15125	334°/nd	07.05-07.10

Afghanistan	L	kHz	Beam	N
07.30-08.00	Afghan-Persian	11765/15125	334°/nd	07.35-07.45
14.45-15.30	Pushto	3905	nd	14.50-15.00
Iran				
03.45-04.00	Persian	15190/17830	282°	03.50-04.00
16.15-17.15	Persian	9680/11895	282°	16.16-16.26
West Asia				
05.00-05.30	Arabic	15260/17780	282°	05.05-04.00
17.30-18.30	Arabic	9912/11805	282°	17.45-17.55
18.45-19.30	French	9912/11805	282°	18.50-19.00

GENERAL OVERSEAS SERVICES in English

	kHz	Beam	N
East & South-East Asia			
22.45-01.15	11710	125°	23.00-23.10
22.45-00.45	9740	102°	23.00-23.10
22.45-01.15	15235	125°	01.00-01.05
13.30-15.00	11810/15335	125°/132°	13.30-13.40 14.55-15.00
North-East Asia			
22.45-01.15	11895	70°	23.00-23.10
22.45-00.15	9615	65°	23.00-23.10
00.30-01.15	15340	65°	01.00-01.05
10.00-11.00	15105/17800/21485	44°/65°	10.00-10.10
Australia/New Zealand			
10.00-11.00	11725/15205 15430/17820	132°/125° 132°/125°	10.00-10.10
20.45-22.30	9912/11740	125°/136°	21.00-21.05
Africa (East)			
17.45-19.45	15080**	250°	18.00-18.10
Africa (West & North)			
19.45-20.45	9690/11775	282°	19.00-19.05
Europe			
17.45-22.30	7215	312°	20.00-20.05
17.45-20.30	11620	312°	21.00-21.20
19.45-22.30	9912	320°	22.00-22.10

There will be changes in frequencies from time to time and listeners are advised to listen to announcements which will cover all such changes.
ANN: Home Sce: "This is All India Radio". External Sce: "This is Delhi calling in the External Services of All India Radio".
INT-SIG: All India Radio's signature is a melody of eight seconds' duration repeated with intervals of 10 seconds in between. The instruments used are violin, cello and tampura.



V. by QSL-card — **PUB:** "India Calling" free of charge — prgr. journal in English. Requests for free supply of copies may be made either of the Dir. of External Services of All India Radio, New Delhi, or through the Indian Diplomatic Mission concerned.

RADIO KASHMIR

Srinagar A 1120kHz, **Srinagar B** 4860/7270kHz, **Srinagar C** 1490kHz: 01.15-17.30 — **Jammu:** 01.00-03.30, 05.20-09.30, 12.00-17.05 on 990/3345/7160/5960kHz (sw's variable).

INDONESIA

L.T: We. Indonesia: GMT + 7 h; Ce. Indonesia: GMT + 8 h; Ea. Indonesia (West Irian): GMT + 9 h — **Pr.L:** Indonesian.

RADIO REPUBLIK INDONESIA (Gov.)

ADDR: P.O. Box 157, Djakarta. **Te:** 49091. **Cable:** RRI — **L.P:** Dir: Abdul Hamed. Dir. of Eng: Ir. H. Sidharto. Dir. of Broadc. Sce's: M. Sani. Dir. of N: R. Sarwoko. Dir. of Gen. Affairs: Kamaluddin SH. Dir. of Public and International Rel: Moh. Rais Baheramsjah.

HOME SERVICES: Stations:

Call	kHz	m	kW
Djakarta	2312	129.8	2.5
	2460	122.0	2.5
	3277	91.55	7.5
	4770	62.89	20
YDB4	4805	62.43	50
YDF	6045	49.63	120
	6105	49.14	100
YDB3	7175	41.81	50
	7200	41.67	1
YDF6	9585	31.30	50
	9770	30.71	100
YDF7	11715	25.61	50
YDE	11770	25.49	20
YDC	15150	19.80	7.5
Bandung			
YDA1	3205	93.60	10
YDA2	2420	124.0	0.25
YDA3	4945	60.67	2.5
Tjirebon			
YDA6	2390	125.5	0.3
—	2390	125.5	1
Purwokerto			
—	3445	87.08	0.15
—	3448	87.00	0.075
Jogjakarta			
YDJ1	5077	59.08	20
YDJ2	7100	42.25	7.5
YDJ3	2350	127.6	1
Surakarta			
YDG3	2448	122.5	1
—	2437	123.1	0.6
YDG4	2437	123.1	10
Semarang			
YDH	2490	120.5	0.1
YDH2	3935	76.24	5
Madiun			
YDG6	3286	91.26	1
Surabaja			
YDI1	3975	75.47	10
YDI2	3975	75.47	2
YDI3	2370	126.6	1
Diember			
YDI6	3315	90.50	1
Sumenep			
YDI20	3345	89.68	1
Banda Atjeh			
YDN	2390	125.5	7.5
YDN2	3335	89.96	1
YDN3	4905	61.16	10
Medan			
YDP	5030	59.64	20
YDP3	7240	41.44	7.5
YDP2	3395	88.37	1
Sibolga			
YDM	3241	92.56	1
—	4755	61.09	
Pakanbaru			
—	3465	86.58	1
8FK24	5955	50.38	10
—	5990	50.08	0.5
Djambi			
YDK6	4775	62.83	7.5
YDK7	3375	88.89	1
Padang			
YDL	2480	120.9	1
YDL2	3960	75.76	10
8FK35	6170	48.62	10
Bukittinggi			
YDM	3232	92.82	0.3
YDM2	4910	61.10	1
Palembang			
YDK	2430	123.5	1
—	4855	61.79	10
Tdj. Pinang			
YDX	4910	61.10	1
Pontianak			
YDW1	3345	89.68	10
YDW	4320	69.44	1
Bandjarmasin			
YDO	3250	92.31	1
YDO2	5970	50.25	10
Samarinda			
YDY	6135	48.90	1
YDY2	3295	91.05	7.5
Palangkaraja			
YDZ7	3325	90.23	1
Makasar			
YDQ	2490	120.5	0.3
YDQ4	4750	63.16	20
YDQ2	9550	31.41	7.5
YDQ3	11785	25.46	1.5
Menado			
YDS2	5990	50.08	10
YDS2	7295	41.12	1
Gorontalo			
YDS6	4900	61.22	1
Denpasar			
YDU2	3945	76.05	1
—	7120	42.13	10
Singaradja			
YDU7	2420	124.0	0.25
Mataram			
YDV5	3223	93.09	1
Kupang			
YDV	3259	92.05	5
—	3385	88.63	0.5
Ambon			
YDR3	3241	92.56	1
YDR2	7140	42.02	10
Sukarnopura			
8FW34	3325	90.23	10
8FW3	6070	49.42	0.5
8FW33	7190	41.72	10
8FW30	9745	30.78	5
8FW2	15344	19.55	0.5
Ternate			
YDZ	3915	76.64	0.3
YDZ2	3945	76.05	0.3
Sorong			
8FW20	4872	61.57	10
—	7165	41.87	0.5
Fak Fak			
8FW40	4805	62.50	0.5
Manokwari			
8FW5	3365	89.15	0.5
Biak			
8FW50	3395	88.37	0.5
—	7230	41.49	1
Merauke			
8FW6	3985	75.28	0.25
Bogor			
—	3875	77.41	1
Kendari			
—	3960	75.76	0.8
—	5055	59.35	0.1
Palu			
—	5010	59.88	0.15
Malang			
—	2430	123.5	0.06

National Prgr. (Djakarta): 23.00-02.00 on 6045, 7175, 11770kHz, 05.00-08.00 on 7175, 11770kHz, 10.00-16.00 on 6045kHz — **N:** 23.30, 10.30.
Metropolitan Prgr: 23.00-08.00 & 10.00-16.00 on 2460kHz.
English (N): 00.15-00.30, 05.15-05.45 (Fri 06.15-06.45), 11.30-1200.
Third/Special Prgr: 23.00-02.00 on 2312kHz, 23.00-01.00 on 3277/4805kHz, 00.00-06.00 on 7220kHz (1kW), 01.00-06.00 on 15150kHz, 05.00-08.00 on 2312kHz, 08.00-16.00 on 3277/4805kHz.
Wajang puppet shadow plays: 2nd and last Sat of the month at 04.00-06.00 on 3277/4805kHz, 16.00-23.00 on 2460/3277kHz
ANN: Nat. Prgr: "Inilah R. Republik Indonesia, Programa Nasional Djakarta". Local Prgr: "Inilah R. Republik Indonesia Djakarta Dengan Siaran Untuk Masjarakat Ibukota Dan Sekitarnja". Special Prgr: "Inilah R. Republik Indonesia Programa Chusus Djakarta". For all N. casts: "Inilah R. Republik Indonesia Dengan Warta-Berita". E: "This is R. Republik Indonesia Djakarta, Metropolitan Prgr".
V. Reports to st's to be addressed to Radio Republik Indonesia, Studio (name of city).
Addr's for Reg. st's (Dj-Djalan): Bandung: Dj. Tjiandjur 6 — Tjirebon: Dj. Kedjaksaan 129 — Purwokerto: Purwokerto — Jogjakarta: Dj. Tjode 4 — Surakarta: Dj. Marconi 1 — Semarang: Dj. Penandaran 144 — Madiun: Dj. Raya 52 — Surabaja: Dj. Pemuda 90 — Djember: Dj. Maluku 1 — Denpasar: Dj. Melati — Sumenep: Dj. Kalianget — Singaradja: Singaradja — Mataram: Dj. Selaparang-Ampenan — Kupang: Dj. Tom Pello — Banda Atieh: Banda Atieh — Medan: Dj. Bulan 5 — Sibolga: Dj. Barus 28 — Pakanbaru: Dj. Siak 13 — Djambi: Djambi — Padang: Dj. Djend. Suidirman 12 — Bukittinggi: Dj. Dr. Rivai 22 — Palambang: Dj. Merdeka 2 — Pinang: Dj. Diponegoro 579 — Pontianak: Dj. Parwira 7 — Bandjarmasin: Dj. Sudimara 6 — Samarinda: Dj. Pemandian 534/35 — Palangkaraya: Palangkaraya Makassar: Dj. Riburane 2 — Menado: Menado — Gorontalo: Gorontalo — Ambon: Dj. Djenderal Achmadjani — Ternate: Dj. Ketlaton — Sukarnopura: Sukarnopura — Sorong: Sorong — Fak Fak: Fak Fak — Biak: Biak — Merauke: Merauke.
ALF: Rp 30, — per month.

FOREIGN SERVICE

STATIONS: Djakarta (G.C: 106.50E/06.12S): 20/50kW

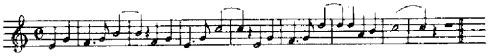
kHz	m	kW	Call-Sign	kHz	m	kW	Call-Sign
6105	49.14	100	8FB63	11715	25.61	100	8FC2
9585	31.30	50	8FB92	11770	25.49	20	8FC22

I = Malaysia/Singapore; II = America/So. Ea. Asia/Asia; III = Australia/New Zealand/Pacific; IV = Ea. & So. Ea. Asia; V = So. Ea. Asia: VI = So. Asia; VII = So. Asia/Africa/So. Ea. Asia; VIII = Mid East; IX = Europe/Mid East/Africa; X = Europe/Mid East; XI = Europe/New Zealand.

Arabic	Area	kHz
13.00-14.00	V	6105, 9585
16.15-17.00	VIII	9585, 11715
Chinese		
00.30-01.00	I	6105, 9585
08.00-08.30	I	11770
12.00-13.00	IV	6105, 9585
English		
23.30-24.00	I	6105, 9585
09.00-09.30	I	11770
11.00-12.00	III	6105, 9585
14.30-15.30	II	6105, 9585
19.00-20.00	XI	9585, 11715
French		
17.00-18.00	IX	9585, 11715
Hindi		
15.30-16.00	VII	6105, 9585
Indonesian		
01.00-02.30	II	6105, 9585
18.00-19.00	X	9585, 11715
Malay		
00.00-00.30	I	6105, 9585
08.30-09.00	I	11770
Urdu		
14.00-14.30	VI	6105, 9585

Indonesia—Israel

News English: 23.32, 09.02, 11.15, 14.45, 19.15. **French:** 17.15. **Arabic:** 13.10, 16.35. **Chinese:** 00.45, 08.15, 12.40. **Hindi:** 15.50. **Indonesian:** 01.15, 18.45. **Malay:** 00.02, 08.32. **Hindi:** 15.50. **Urdu:** 14.02.
ANN: E "This is the Voice of Indonesia broadc. from Djakarta". F: "Ici Djakarta, la voix de l'Indonesie" — **INT-SIG:** Rajuan Pulau Kelepa (the song of the Coconut Islands played on Hammond organ, Flute, Vibe and Piano).



V. by QSL-card or letter. Listeners rep's are welcome — **PUB:** Weekly: R.R.I. Radio dan Televisi (home prgr.). Write to "Voice of Indonesia", RRI, P.O. Box 157, Djakarta.

RADIO ANGKATAN UDARA (Air Forces)
ADDR: 57 Djalan Tjipinang, Tjempedak I, Djantinegra, Djakarta.
STATIONS: 2475kHz 121.2m 0.5kW — 11905kHz 25.20m 7.5kW
D. PRGR'S: 04.30-07.30, 09.30-13.30 — **V.** by letter. Reports in Indonesian or English wanted.

IRAN

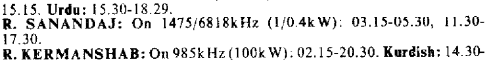
L.T: GMT + 3½ h — **Pr.L:** Farsi.
MINISTRY OF INFORMATION (Gov.)
ADDR: Ministry of Information, Meidan Ark, Tehran. **Te:** 55161. **Telex:** 2077. **Cable:** Varatel. **L.P:** Minister of Inf: H. E. J. Mansoor. Gen. Techn. Dir: Eng. E. Kianpour. Supervisor of R. Iran: E. Golesorkhi.
STATIONS:

kHz	m	kW	kHz	m	kW	kHz	m	kW
580	517.2	50	3998	75.03	100	11730	25.58	100
1325	226.5	100	7064	42.46	100	15135	19.82	100

HOME SCE: R. Iran (First Prgr): 24 h on 580/3998/7064kHz.
N. in Farsi: 21.30, 22.30, 23.30, 00.30, 01.30, 02.30, 03.30, 04.30, 05.30, 06.30, 08.20, 09.30, 10.30, 11.00, 12.30, 13.30, 14.30, 15.30, 16.30, 17.30, 19.30, 20.30.
R. Tehran (Second Prgr): 02.30-04.30, 06.30-09.30, 13.30-19.30 on 1325kHz + 98MHz. **Third Prgr** (FM Stereo): 17.30-21.00 on 98MHz.
FOREIGN SCE: To Europe: 17.30-21.30 on 11730/15135kHz.
17.30 Russian, 18.00 Turkish, 18.30 Arabic, 19.00 German, 19.30 French, 20.00 English, 20.30-21.30 Special Prgr. for Iranians Abroad.

REGIONAL STATIONS

R. TABRIZ: On 650/6155kHz (100/7.5kW): 02.20-20.30. **Armenian:** 18.00-18.30.
R. REZAIEH: On 909/6940kHz (1/0.5kW): 06.30-10.30, 13.30-17.30. **Assirian:** 16.00-16.30. **Turkish:** 15.00-16.00.
R. ISFAHAN: On 1100kHz (10kW): 06.30-11.30, 14.30-19.30.
R. ZAHEDAN: On 777kHz (100kW): 02.30-20.30. **Baluchi:** 14.30-15.15. **Urdu:** 15.30-18.29.
R. SANANDAJ: On 1475/6818kHz (1/0.4kW): 03.15-05.30, 11.30-17.30.
R. KERMANSHAB: On 985kHz (100kW): 02.15-20.30. **Kurdish:** 14.30-18.00. **Arabic:** 18.30-19.30.
R. GORGAN: On 1426/6520kHz (1/0.4kW): 07.30-09.30, 12.30-17.30.
R. SHIRAZ: On 1050kHz (10kW): 05.30-10.30, 12.30-20.30.
R. RASHT: On 680kHz (100kW): 02.30-20.30.
R. KERMAN: On 1090kHz (1kW): 06.30-10.30, 12.30-16.30.
R. MASHAD: On 720kHz (10kW): 05.30-11.30, 13.30-18.30.
R. AHWAZ: On 1390kHz (100kW): 02.30-11.30, 12.30-21.30. **Arabic:** 15.30-21.30.
ANN: E: "This is Tehran, R. Iran". F: "Ici Tehran, R. Iran". Turkish: "Burasi Tehran, Iran Radyosu". Russian: "Govorit Tegeran, R. Iran". Farsi: "Inja Tehran ast, R. Iran". Urdu: "R. Iran-Zahedan". Kurdish: "Dani Irana, Bashi Kurdi". Arabic: "Huna al Ahwaz, Der' el Isa'a al Iraniya". Baloochy: "Ada Zahedan, R. Iran". Armenian: "Tavrizne khosoom". Assirian: "Lakha Rezaieh, R. Azerbayjan Ma'arvesta" — **INT-SIG:** Iranian melody played on vibraphone. Beginning of the "Mahoor" one of the seven sets of Iranian music.



V. by QSL-card. Rp. Recordings accepted — **PUB:** "Iran Today" (Quarterly magazine) in E, F, G. "Facts about Iran" (Weekly bulletin) in E, F, Arabic — **F.PL:** New Gov. Iranian National Radio and Television — **AD:** Allowed, income goes straight to the Treasury.

IRAQ

L.T: GMT + 3 h — **Pr.L:** Arabic, Kurdish, Turkuman.
BROADCASTING STATION OF THE REPUBLIC OF IRAQ
ADDR: Directorate Gen. of Broadc. and Television, Salihiya, Baghdad. **Te:** 31151. **Cable:** Broadcasts. **L.P:** Dir. Gen: M. S. Alsahaf.
STATIONS (G.C: sw-tr's: 44.35E/33.09N).

kHz	m	kW	kHz	m	kW
764	392.6	150/300	6155	48.74	50
908	330.0	200	7180	41.78	100
1350	222.2	20	7240	41.44	100
3240	92.59	50	9555	31.40	50
3960	75.76	50	11785	25.46	50
6030	49.75	100	15400	19.48	50
6095	49.22	100			

HOME SCE: Arabic: 02.30-06.00 on 764/6155/7180kHz, 06.00-08.00 on 764/6155kHz, 08.00-10.00 on 908kHz, 10.00-10.30 on 908/6095/7180kHz, 10.30-12.00 on 908/6095/7180/15400kHz, 12.00-12.30 on 908/6095/7180kHz, 12.30-13.00 on 908/6155/6095/7180kHz, 13.00-17.30 on 764/908/6095/6155/7180/9555kHz, 17.30-22.30 on 764/908/6155/7180/9555kHz
Kurdish, Turkuman: 02.30-08.00 on 1350/3240/6030kHz, 10.00-17.30 on 1350/3240/6030kHz. **Voice of Baghdad:** 19.30-21.00 on 1350/3960 kHz.

FOREIGN SCE:
To Near- and Middle-East: 17.30-19.30.
Urdu: 14.00-15.00 on 11785kHz. **Persian:** (Farsi): 17.30-18.30 on 1350/3240/6030kHz. **Russian:** 18.30-19.30 on 7240 kHz. **Turkish:** 18.30-19.30 on 1350/3240/6030kHz.
To Europe: 19.30-22.00 on 6030/6095kHz. **English:** 19.30-20.20. **German:** 20.20-21.00. **French:** 21.10-22.00
ANN: "Itha'at Al-Jemhoriya Al-Iraqiya Fi Baghdad" (The Broadcasting Service of the Iraqui Republic in Baghdad" English: "This is R. Baghdad". French: "Ici R. Baghdad". German: "Hier ist R. Baghdad" — **INT-SIG:** Soft chirps of a mechanical nightingale — **V.** by QSL-card.

ISRAEL

ISRAEL BROADCASTING AUTHORITY (Statutory)
L.P: Dir. Gen: S. Almog. Asst. Dir. Gen (Planning): Dr. Y. Spira. Asst. Dir. Gen (Adm): E. Goren. Dir. N. & Current Events: A. Gordon. Dir. Overseas Broadc. & Foreign Rel: A. Hauslich. Dir. Arabic Prgr: Y. Hazma. Ag. Dir. Operations: Miss R. Rothschild. Dir. Pub: Rel: D. Neumann. Chief Eng: S. Gal. **Engineering:** Dir. Gen. (Ministry of Posts): S. Soroker. Dir. Eng (Ministry of Posts): M. E. Berman.

STATIONS: Medium Waves:

kHz	m	kW	Prgr.	kHz	m	kW	Prgr.
575	521.7	200	A	1097	273.5	0.5	B
656	457.3	100	B	1169	256.6	1	A
677	443.1	50	D	1205	249.0	10	A
710	422.5	1	B	1286	233.3	7.5	
737	407.1	100	D	1304	230.1	1	
845	355.0	1	A	1358	220.9	0.5	A
881	340.5	0.05	A	1367	219.5	5	
1025	292.7	100	D				

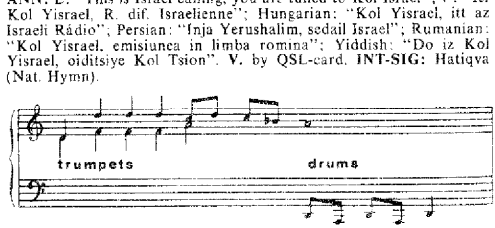
Short Waves:

kHz	m	kW	Prgr.	kHz	m	kW	Prgr.
2442	122.9	1		9625	31.17	20	C
7189	41.73	20	D	9725	30.85	100	C
9009	33.30	50/7.5	C	11910	25.19	100	C

FM: 91.3MHz 100kW (Prgr. A), 95.3MHz 30kW (Prgr. B).

HOME SCE: Prgr. A (Hebrew): Sun-Fri 04.00-05.15, 09.30-12.30 (Fri 12.10), 15.00 (Fri 13.45)-21.10; Sat 06.00-11.05, 14.00-21.10. **N:** 04.05, 05.00, 06.00, 12.00, 15.00, 17.00, 18.00, 21.00.
Prgr. B: 05.00-10.05, 12.00-22.05 (Sat 09.00-22.05).
Prgr. D in Arabic, English, French on 677/737/1025/7189kHz: **Arabic:** 04.00-05.00, 05.30-07.00, 09.00-11.30, 12.30-18.30, 19.00-22.15. **English:** 05.00-05.15, 11.30-12.00, 18.30-18.45. **French:** 05.15-05.30, 12.00-12.30, 18.45-19.00.
Galei Tsahal (Forces Broadc. Sce): 09.30-12.10, 15.30-21.30 on 1286/1304/1367/2442kHz.
ANN: Home Sce: "Kol Yisrael Mi-Yerushalayim b'Reshet Aleph" (Network A from Jerusalem); "Ha-Gal Ha-Kel shel Kol Yisrael (Light Prgr.) or "Kol Yisrael mi Yerushalayim b'Reshet Beit (Network B); Arabic: "Dar il 'Eza'a il' Israeliya min il-Kuds wa' Ramallah (The Israel Broadc. House, from Jerusalem and Ramallah); Forces Broadc. Sce: "Galei Tsahal, Shidurei Tsva Hagana Le-Yisrael".
INT-SIG: Traditional Bible cantillation played on oboe strings.

FOREIGN SCE. on 9009/9725kHz (Prgr. C):
9009 (omnidir.)/9725kHz: 04.30-05.45 to Europe: 15.30-22.00 to Europe, 20.15-20.30 to Africa, also on 9625 kHz 15.30-20.00 (to Europe).
Russian 04.30-04.45, 15.30-15.45; Yiddish 16.00-16.30, Persian 16.30-17.00, Russian 17.00-17.30, Hungarian 17.30-17.45, Rumanian 17.45-18.00, Ladino 18.00-18.15*, Moghrabit 18.15-18.30, Yiddish 18.30-19.00, Hebrew 19.00-19.30, Russian 19.30-20.00. **French** 20.45-21.15, **English** 20.15-20.30 (to So. Africa), 21.15-21.30 (to Europe), Russian 21.30-22.00. **N:** at the beginning of each prgr. and 16.20, 18.50 (Yiddish) — *) Rel. Prgr. "B".
ANN: E: "This is Israel calling, you are tuned to Kol Israel"; F: "Ici Kol Yisrael, R. dif. Israelienne"; Hungarian: "Kol Yisrael, itt az Israeli Rádio"; Persian: "Inja Yerushalim, sedail Israel"; Rumanian: "Kol Yisrael, emisiunea in limba romina"; Yiddish: "Do iz Kol Yisrael, oiditsiye Kol Tsion". **V.** by QSL-card. **INT-SIG:** Hatiqva (Nat. Hymn).



FI: By state, licence payments, adv — **AD:** 5 min per h — **ALF:** 11.20.

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JAPAN

L.T: GMT + 9 h – **Pr.L:** Japanese.

NIPPON HOSO KYOKAI (NHK)

(The Japan Broadcasting Corporation)
(Public Corporation, non-Gov, non-comm)

ADDR: No. 2, 2-chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo. **Cable:** RADIONHK. **Te:** (501) 4111. **Telex:** TK 2377, 4338.
L.P: Chmn (Board of Governors): T. Hiratsuka. Pres: Y. Maeda. Vice Pres: K. Ono. Dir. Gen. of Engineering: T. Nomura. Gen. Man. Dir's: S. Takenaka, K. Kawakami, M. Shiga, T. Nagasawa, H. Sano. Man. Dir's: H. Sho, K. Fujishima, S. Omura, H. Matsuura. Auditor's: M. Nagahama, T. Suzuki, I. Nakayama. Dir's Secr: H. Hikino. Policy Planning Bureau: T. Nomura, Y. Otani, M. Sorimachi, T. Watanabe, M. Arai. Man. Inf. Sce. Bureau: K. Sakakura. Publ. Rel. Bureau: T. Iida. Legal Affairs Bureau: M. Kasama. Audit Bureau: I. Hatakeyama. Prgr. Inspection Bureau: M. Udoyama. Gen. Broadc. Adm: K. Kawakami. Hqs. of Techn. Adm. and Construction: K. Fujishima. Gen. Adm. of Audience Sce: H. Sano. Educ. Prgr. Dept: M. Yamazaki. News Dept: T. Hashimoto. News Commentators Room: M. Hirano. Entertainm. Prgr. Dept: U. Nakayama. Tech. Operation Center: H. Homma, Y. Iguchi. Prgr. Servicing Dept: M. Kobayashi. Announcers Room: M. Kato. Eng. Operation Dept: Z. Toyota. Broadc. Servicing Dept: K. Kawashima. Overseas Broadc. Dept: M. Tateno. Tokyo Audience Sces Dept: H. Sugita. Staff Adm. Dept: M. Kawahara. C. Training Inst: N. Shimazaki. Finance Dept: N. Ikeda. Gen. Affairs Dept: S. Michizu. Broadc. C. Man. Dept: S. Uzawa. Radio & TV Cult. Research Inst: S. Takashima. Public Opinion Research Inst: Y. Sakuraba. Techn. Research Lab: S. Shimizu. Broadc. Science Research Lab: H. Nakajima.

STATIONS: Medium Waves: The medium wave (535-1605kHz) tr's are used for domestic radio sce. in the 1st and 2nd net, both extensive enough to place the entire country under coverage. Number of stations (as of Oct. 1st, 1968): 1st Network: 170 — 2nd Network: 138 — 1) = 1st net — 2) 2nd net.

Call	kHz	kW
°Sapporo		
1) IK	570	100
2) IB	750	100
Hakodate		
1) VK	680	5
2) VB	1470	1
Asahikawa		
1) CG	620	3
2) CC	1470	1
Wakkanai		
1) —	980	1
2) —	1470	0.5
Nayoro		
1) —	600	1
2) —	1370	1
Enbetsu		
1) —	790	1
2) —	1600	1
Obihiro		
1) OG	660	5
2) OC	1080	1
Kushiro		
1) PG	640	10
2) PC	1150	10
Kitami		
1) KP	1190	10
2) KD	700	10
Muroran		
1) IU	780	3
2) IT	1080	1
°Sendai		
1) HK	890	10
2) HB	1090	10
Akita		
1) UK	1170	10
2) UB	770	10
Yamagata		
1) JG	540	5
2) JC	1520	1
Tsuruoka		
1) JP	1320	1
2) JD	1510	1
Morioka		
1) QG	850	10
2) QC	1390	10
Koriyama		
1) CP	820	1
2) CD	1510	1
Aomori		
1) TG	960	5
2) TC	1520	1
Hachinohe		
1) TQ	1300	1
2) TZ	1510	1
***Tokyo**		
1) AK	590	100
2) AB	690	300
Kofu		
1) KG	980	5
2) KC	1470	1
Nagano		
1) NK	820	1
2) NB	1370	1
Matsumoto		
1) SG	540	1
2) SC	1510	1
Iida		
1) —	620	1
2) —	1480	0.5
Niigata		
1) QK	840	10
2) QB	1590	10
Takada		
1) —	790	1
2) —	1360	0.1
°Nagoya		
1) CK	730	10
2) CB	910	10
Takayama		
1) CQ	790	1
2) CZ	1370	1
Shizuoka		
1) PK	880	10
2) PB	760	10
Hamamatsu		
1) DG	1000	1
2) DC	1520	1
Kanazawa		
1) JK	1220	10
2) JB	1390	10
Nanao		
1) —	540	1
2) —	1370	0.1
Fukui		
1) FG	980	5
2) FC	1520	1
Toyama		
1) IG	650	5
2) IC	1080	1
°Osaka		
1) BK	670	100
2) BB	830	100
Hikone		
1) BS	780	1
Kyoto		
1) OK	1300	1
2) OB	1510	1
°Hiroshima		
1) FK	1070	10
2) FB	700	10
Fukuyama		
1) DP	1000	1
2) DD	1470	1
Okayama		
1) KK	600	5
2) KB	1600	5
Matsue		
1) TK	1240	10
2) TB	1590	10
Tottori		
1) LG	1300	1
2) LC	1080	1
Yonago		
1) LQ	960	1
2) LU	1520	1
Yamaguchi		
1) UG	680	5
2) UC	1370	5
Hagi		
1) —	960	1
2) —	1600	0.5
°Matsuyama		
1) ZK	960	5
2) ZB	1510	5
Uwajima		
1) ZU	1440	1
2) ZY	1600	1
Kochi		
1) RK	990	10
2) RB	1150	10
Nakamura		
1) —	1000	1
2) —	1520	0.5
Tokushima		
1) XK	780	5
2) XB	1520	1
Takamatsu		
1) HP	1300	5
2) HD	1080	1
°Kumamoto		
1) GK	930	10
2) GB	1590	10
Hitoyoshi		
1) —	820	1
2) —	1600	1
Fukuoka		
1) LK	610	100
2) LB	870	100
Kitakyushu		
1) SK	540	1
2) SB	1600	1
Nagasaki		
1) AG	660	5
2) AC	1600	1
Kagoshima		
1) HG	580	10
2) HC	1390	10
Naze		
1) —	790	1
2) —	1480	1
Miyazaki		
1) MG	540	1
2) MC	1470	1
Nobeoka		
1) —	620	1
2) —	1480	1
Oita		
1) IP	820	1
2) ID	1470	1
Saga		
1) SP	960	1
2) SD	1370	1

+ 187 st's less 1kW not mentioned.
* = Headquarters; ° = Reg. Key St.

HOME SERVICE

1st Netw: 20.00-15.00 — **N:** W: Every h and 00.30, 01.30, 02.30, 04.30, 05.30, 06.30, 07.30, 08.35, 14.55. Sun: Every h exc. 01.00, 05.00, 11.00; also 14.55 — **Wrp:** 20.29, 20.57, 21.13, 21.50, 22.15, 22.47, 23.58, 00.58, 01.58, 02.55, 03.13, 03.58, 04.58, 05.58, 06.08, 06.58, 07.58, 09.50, 10.15, 11.58, 12.13, 12.58, 13.08, 13.58, 14.58 — **Mbg:** W 21.50 — **T.S:** every h.
2nd Netw: D 20.30-15.00 — **English: N:** W 09.55 — **L.L: Fundamental Course of English:** W 21.05-21.25, 06.25-06.45, 09.20-09.40. **English Conversation:** W 21.25-21.40, 06.10-07.25, 09.40-09.55. **German:** 22.00-22.20. **French:** 22.40-23.00, 14.40-15.00 — **Wrp:** 00.15, 07.00, 13.00 — **School Broadc:** W 00.00-03.00, 04.00-04.15 (not Sat).

FM-STATIONS: 2 st's of 10kW, 3 st's of 3kW, 25 st's of 1kW, 5 st's of 0.5kW, 17 st's of 0.25kW, 60 st's of 0.1kW, 58 st's less 0.1kW.
D. 21.00-15.00 (Monophonic & Stereophonic broadc. in Pilot tone system).

RELAYS OF HOME SCE PRGR's ON SHORTWAVES

(G.C: JKH 139.50E/36.10N — JKI 139.37E/35.46N)
1st Prgr: JKH 7230kHz 41.49m 5kW: 20.00-22.15, 08.00-10.00; JKH2 9655kHz 31.07m 5kW: 22.25-07.45 — **2nd Prgr:** JKI 7285kHz 41.18m 5kW: 20.30-10.00.

FOREIGN SERVICE

I = No. American Sce; II = No. & Latin American and Hawaiian Sce; III = European Sce; IV = Latin American Sce; V = Australia/N.Z. Sce; VI = So. Ea. Asian Sce; VII = Asian Continent Sce; VIII = Korean Sce; IX = So. Asian & African Sce; X = M. East & No. Afrikan Sce.
Languages: a) English — b) Spanish, Japanese, English — c) German, French, English, Italian, Swedish — d) Russian, German, English, Swedish — e) Japanese, Portuguese, Spanish — f) Standard Chinese, Fukienese, Cantonese, Vietnamese — g) English, Indonesian, Malay — h) English, French, Vietnamese, Burmese, Thai, Indonesian, Standard Chinese, Fukienese, Cantonese — i) Russian, Standard Chinese — j) Standard Chinese — k) Korean — l) Hindi, Urdu, Swahili, French, English, Bengali — m) English, French, Arabic.
STATIONS: 20/50/100/200kW (G.C: 139.37E/35.46N & 139.50E/36.10N):

kHz	m	kHz	m	kHz	m	kHz	m
6080	49.34	9670	31.02	11875	25.26	17725	16.93
6140	48.46	9675	31.01	11940	25.13	17785	16.87
7140	42.02	9700	30.93	11965	25.07	17825	16.83
7195	41.70	9705	30.91	15105	19.86	21535	13.92
9505	31.56	9765	30.72	15135	19.82	21640	13.86
9525	31.50	11705	25.63	15195	19.74		
9530	31.48	11780	25.47	15235	19.69		
9560	31.38	11815	25.39	15300	19.61		

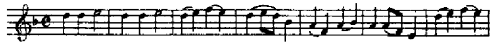
GENERAL SERVICE in English and Japanese

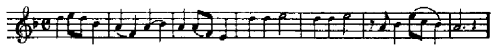
Times	kHz	Times	kHz
00.00-00.30	9700, 15195 17785	10.00-11.30	9505, 11815 15300
01.00-01.30	15195, 15300 17785	12.00-12.30 13.00-13.30	9505, 9560 11815
02.00-02.30 03.00-03.30	15105, 15195 15300	14.00-15.30 16.00-16.30 17.00-17.30 18.00-18.30	9505, 9560 9605
04.00-04.30 05.00-05.30 06.00-06.30 07.00-07.30 08.00-08.30 09.00-09.30	9505, 15195 15300	19.00-19.30 20.00-20.30 21.00-21.30 22.00-22.30 23.00-24.00	9560, 9605 15105 9700, 15195 17785

Beams: 9505 (55°) (No. America), 9560 (330°) (Europe), 9605 (240°) (Asia), 9700 (333°) (Europe), 11815 (240°) (Asia), 15105 (55°) (No. America), 15195 (240°) (Asia), 15300 (330°) (Europe), 17785kHz (55°) (No. Am.).
N. in English: Every h on the h.
REGIONAL SERVICES:

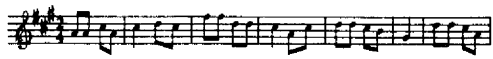
Times	Sce.	kHz	L	N. in English
23.45-00.45	I	17825, 15135	a	23.45-23.55 00.35-00.45
01.30-03.30	II	17825, 17725 15235, 21640	b	02.00-02.10 02.50-03.00
07.00-08.30	III	17825, 15135	c	08.00-08.10
19.30-21.00	III	11965, 9700	d	20.30-20.40
09.00-11.00	IV	11780, 9765, 9530	e	
09.30-10.30	V	15235, 11875	a	09.30-09.40 10.20-10.30
09.45-11.15	VI	9705, 7195, 11940	f	
10.45-12.15	VI	11875, 9675	g	10.45-10.55
11.30-15.30	VI	11940, 11780, 9525	h	11.30-11.40
12.30-13.30	VII	11705, 9675	i	
23.00-23.30	VII	7140	j	
11.30-12.15 22.00-22.45	VIII VIII	7195, 6140, 6080	k	
14.30-17.00	IX	11705, 9670	l	16.30-16.40
17.30-19.00	X	9670, 11780	m	17.30-17.40

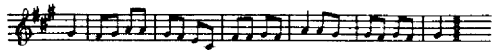
NEWS (in other languages): **French:** 07.30 (III), 12.00 (VI), 16.00 (IX), 18.00 (X) — **German:** 07.00 (III), 20.00 (III) — **Portuguese:** 10.00 (IV) — **Russian:** 19.30 (III), 12.30 (VIII) — **Spanish:** 03.00 (II), 10.30 (IV) — **Indonesian:** 11.15 (VI), 14.00 (VI) — **Italian Hour:** Mon 07.40-08.00 (III) **Scandinavian Hour:** Sun, Wed, 08.15-08.30, 20.45-21.00 (III).
DX-PRGR ("R. Japan DX News"): In "Listeners Corner" on every 3rd Sat/Sun: Sat 08.25-08.30 (III), 10.05-10.20 (V), 20.55-21.00 (III), Sun 00.20-00.35 (I), 02.35-02.50 (II); Fortnightly in the weekly "Disc Jockey". Sun 10.55-11.15 (VI), 11.40-12.00 (VI), 16.40-17.00 (IX), 17.40-18.00 (X).
ANN: Spanish: "Aqui Radio Japón". Portuguese: "Estão Ouvindo a Rádio Japão" — **ALF:** Radio: Free.
ANN: Home Service: The call sign and the station name are announced at the commencement and end of each transmission. At intervals between programmes an announcement, "**NHK**" is made at the end of the news prgr's of both 1st network and of FM network. It also comes before the call sign of 2nd network.
Foreign Service: English: "This is Radio Japan, the Overseas Broadcasting Service of NHK. We are broadcasting to . . . (target area") — **French:** "Ici Radio Japon . . . (target area)" — **German:** "Hier ist Tokyo, der Japanische Rundfunk . . . (target area)" — **Italian:** "Buon giorno, sign. radioascoltatori Italiani; Qui Radio Giappone — Reparto Servizio Internazionale di NHK . . ." — **Spanish:** "Aqui Radio Japón" — **Portuguese:** "Estão ouvindo a Radio Japão . . ." — **Indonesian:** "Inilah Radio Djepang, siaran international dari NHK di Tokio . . .".
INT-SIG: Home Service: Both on the 1st and the 2nd network, a musical sign is beamed on a celeste before commencing broadcasting. No interval signal is used since both the 1st and the 2nd networks are continuously on the air — **Foreign Service:** Opening music of Reg. Sce's "Sakura".





Interval signal music "Kazoe Uta".





PUB: In Japanese only: Graph NHK (twice a month), Hoso Bunka or Broadcast Culture (monthly), NHK Year Book (annual). In English and others: NHK Handbook (annual in E), NHK Today and Tomorrow (monthly in E, F, Sp), Radio Japan News (monthly in E, J, Sp and others), This is NHK (annual in E), NHK Technical Monograph (irr. in E), NHK Laboratories Note (annual in E), The prgr. schedules for Overseas Service (R. Japan), Studies of Broadcasting (annual in E). — **V.** by QSL-card and by letter — **FI:** In accordance with the Broadcast Law. NHK's operations are financed by the revenue from subscription fee — **ALF:** 600 Yen.

PRIVATELY OWNED COMMERCIAL STATIONS

THE NATIONAL ASSOCIATION OF COMMERCIAL BROADCASTERS IN JAPAN

ADDR: Bungei Shunju Bldg. 3, Kioi-cho, Chiyoda-ku, Tokyo. **Te:** 265-7481. **Cable:** Mimporen. **L.P:** Pres: J. Imamichi. Exec. Dir: S. Sakai. Secr. Gen: K. Sugiyama.
Medium Waves: Call: JO—,

	Call	kHz	kW		Call	kHz	kW		Call	kHz	kW
1)	CR	560	10	11)	EL	1100	1	7)	HR	1290	10
2)	DF	720	1	20)	WO	1100	1	34)	LF	1310	50
3)	IL	720	1	21)	GF	1100	1	35)	SF	1330	10
4)	JF	740	5	6)	SR	1110	1	36)	ER	1350	10
5)	LR	740	5	22)	BW	1110	1	37)	UF	1380	20
6)	SO	860	1	23)	MR	1110	5	38)	VR	1400	5
7)	QF	860	3	24)	AF	1120	5	7)	QL	1400	1
8)	PR	860	5	25)	DR	1120	5	3)	IF	1410	10
7)	HE	860	3	26)	QR	1130	50	39)	RF	1420	10
9)	HF	900	5	22)	BR	1140	10	31)	GO	1430	1
10)	ZR	900	5	23)	MO	1200	1	40)	VF	1430	3
7)	HO	900	5	6)	SW	1200	1	41)	ZF	1430	1
11)	EF	920	5	27)	BF	1200	5	7)	QM	1450	5
12)	HF	920	1	28)	YF	1200	1	42)	KF	1450	5
13)	TR	940	5	29)	FO	1200	1	14)	PL	1460	1
14)	PE	940	5	30)	OR	1210	20	43)	WF	1460	5
15)	KR	950	50	19)	UR	1230	5	7)	TL	1490	1
16)	NR	1010	20	31)	GR	1230	5	44)	YR	1490	5
17)	AR	1050	10	32)	IR	1260	10	25)	DO	1530	1
18)	CF	1100	5	29)	FR	1270	10	45)	XF	1530	1
19)	MF	1100	1	7)	HW	1280	5	24)	AM	1530	1
12)	NF	1100	1	33)	JR	1280	5				

+ 71 low power st's less 1kW not mentioned.

1) **R. Kansai Ltd.** 1-1, Miyuki-cho, Sumaku. Kobe. **Te:** 71-4321. Chmn: H. Miayzaki. Dir. Gen: T. Tanaka. Gen. Mgr: H. Sekiguchi. Dir. Tec: O. Sekiya. 20.30-16.00. **V.** by QSL-card.
2) **Iwate Broadc. Co,** 1-6, Shikecho, Morioka. Pres: T. Ota. Dir. Gen: M. Yoshida. 20.30-15.00. **V.** by QSL-card.
3) **Kyushu Asahi Broadc. Co,** 1-1, Nagahama-cho, Fukuoka. Chmn: I. Dan. Pres: S. Takano. 20.30-15.40. **V.** by QSL-card.
4) **Yamanashi Broadc. System Inc,** 10-6, 2-chome, Kitaguchi, Kofu. Chmn: J. Noguchi. Pres: H. Noguchi. 20.30-14.45.
5) **Kita Nihon Broadc. Co,** 18-10, Ushijima, Toyama. Pres: R. Yokoyama. 21.50-14.10.
6) **Shinetsu Broadc. Co,** 132-1, Yoshida, Nagano. Pres: T. Ishihara. 20.00-15.05.
7) **Hokkaido Broadc. Co,** North 1, West 5, Sapporo, Hokkaido. **Te:** 01.22-23-8181. Pres: S. Abe. Dir. Gen: K. Muroya. Dir. Tec: K. Kamo.
D.Prgr: N: 20.55, 22.55, 23.55, 00.55, 01.55, 02.45, 03.40, 04.55, 05.55,

07.55, 08.55, 09.30, 13.50. **V.** by QSL-card. Prgr. schedule free.
8) **Fukui Broadc. Co,** 4-3, Ote-machi, Fukui. Pres: S. Kato. Dir. Gen: Y. Yoshida.
9) **San In Broadc. System,** 423, Nishifukuhara, Yonago. Chmn: H. Sakaguchi. Pres: O. Oda. 20.35-15.05.
10) **R. Kochi Broadc. Co,** 23, Motomachi, Kochi. Chmn: G. Fukuda. Pres: M. Katada.
11) **Yamagata Broadc. Co,** 5-2, Hatagocho, Yamagata. Pres: T. Hattori. 20.00-11.45. **V.** by QSL-card.
12) **Miyazaki Broadc. Co,** 858, Shimo Kitakatamachi, Miyazaki. Chmn: S. Iwakiri. Pres: Y. Kuroki. 20.30-15.05. **V.** by QSL-card.
13) **Akita Broadc. System,** Sanno Odori, Akita. Chmn: S. Hitomi. Pres: G. Kurata. 20.00-14.40.
14) **Yamaguchi Broadc. Co,** Koenku, Tokoyama. Pres: K. Nomura. 20.30-15.00. V. by QSL-card.
15) **Tokyo Broadc. System,** Main Office: 3-6, Akasaka, Minatoku, Tokyo. **Te:** 584-3111. **Cable:** JOKR. Chmn: T. Adachi. Pres: J. Imamichi. Dir. Gen: T. Morimoto. Mgr. Dir: M. Yoshida. Dir. Prgr: S. Sakamoto (radio), Y. Yamanishi (TV). 20.00-16.30 (Sun 17.00). **N:** 5 min every h. **Ann:** "JOKR Kochirawa Tokyo Hoso desu". E: "JOKR, this is TBS". V. by letter. Recordings accepted.
16) **Asahi Broadc. Corp,** Main Office and R. st: 2-2, Yodocho, Yodoku, Osaka. Tokyo Office: Yurakucho, Tokyo. **Te:** (06) 458-5321. **Cable:** JONRTV. **L.P:** Pres: T. Hirai. Vice Pres: K. Hara. Man. Dir: T. Sudo. Dir. Tec: E. Habu. Dir. Tokyo Office: K. Tamura. **D.Prgr:** 20.30-17.00. **N:** 21.00, 22.00, 23.00, 24.00, 02.00, 03.00, 04.00 (W), 05.00 (W), 06.00, 07.00 (W), 08.00 (W), 09.00 (W), 09.50 (Sun), 12.00, 14.00. **Ann:** "ABC Asahi Hoso JONR". V. by QSL-card. Re. in E. Recorded Rc. preferred. **F.Pl:** 100kW.
17) **Chubu-Nippon Broadc. Co,** 4-15 Shinsakae-machi, Naka-ku, Nagoya. **Te:** 241-8111. Chmn: K. Sasabe. Pres: G. Kojima. **D.Prgr:** 20.30-16.00. **N:** On the h 21.00-09.00 and at 09.15, 12.45, 14.50. **V.** by QSL-card.
18) **Minaminihon Broadc. Co,** 17, Korai-cho, Kagoshima. Chmn: K. Terazono. Pres: S. Hatanaka. 23.50-13.55. **V.** by QSL-card.
19) **Nagasaki Broadc. Co,** 35-1, Uemachi, Nagasaki. Pres: R. Nakabe.
20) **R. Fukushima Broadc. Co,** 1-11, Sakaemachi, Fukushima. Pres: T. Tobishima. 20.00-15.30.
21) **Oita Broadc. Sce,** 5-1315, Imazuru, Oita. Pres: Y. Hoshino. 20.30-15.00. V. by QSL-card.
22) **Kinki Broadc. System Co,** Karasuma-dori, Nakakyo-Ku, Kyoto. Chmn: T. Nakano. Pres: U. Shiraishi. 20.30-16.00. **N:** every h on the h from 21.00. V. by QSL-card. Prgr. schedule on request.
23) **Hokuriku Broadc. Co,** 5-7, Korinho, Kanazawa. Chmn: Miyashita. Pres: Y. Saga. 20.30-15.00.
24) **Nankai Broadc. Co,** 1-1135 Aogo, Matsuyama. Chmn: Y. Jamanaka. Pres: Y. Hirata.
25) **Broadc. System of Niigata,** 18-3 Kawagishicho, Niigata. Pres: E. Horiuchi.
26) **Nippon Cultural Broadc. Inc,** 5-1, Wakaba-cho, Shinjuku, Tokyo. Pres: S. Mizuno. Man. Dir: S. Tomoda. 20.00-16.55. **Ann:** "Okiki no hoso wa Bunka Hoso 1130kc desu". **V.** by QSL-card.
27) **Kumamoto Broadc. Corp,** 30, Yamasaki-machi, Kumamoto. Pres: R. Fukami. 23.50-04.40 & 08.30-16.30.
28) **Ibaraki Broadc. System,** 2-14, Kitami-cho, Mito. Pres: S. Shirasawa.
29) **RKB Mainichi Broadc. Co,** Watanabe-dori 4, Fukuoka. Pres: H. Kaneko. Gen. Mgr: K. Kimoto. Dir. Tec: S. Karikita. 20.30-16.00.
30) **Mainichi Broadc. System Inc,** Head Office: 53, Funadaiku-cho, Dojima, Kita-ku, Osaka. Tokyo Office: Yuraku-cho, Chiyodaku, Tokyo. **Te:** Head Office: 361-8231. **Cable:** Mainichihoso, Osaka. Chmn: C. Honda. Pres: S. Takahashi. 20.30-16.00. **N:** every h on the h 21.00-07.00, 09.00, 14.00. **Ann:** "MBS, Mainichi Hoso desu". **V.** by QSL-card. Prgr. schedule on request.
31) **Aomori Broadc. Co,** 72 Fukuda, Matsumori, Aomori City. Chmn: S. Takeuchi. Pres: I. Sakamoto. Dir. Tec: H. Tomura. **D.Prgr: N:** 21.00, 22.00, 24.00, 01.00, 03.00, 04.00, 05.00, 06.00, 08.00, 09.30, 13.00. **V.** by QSL-card.
32) **Tohoku Broadc. Co,** 26, Kasumisho, Yagiyama, Sendai. Pres: C. Kanno. 20.30-15.15.
33) **Shikoku Broadc. Corp,** 32-1, Saiwaicho, Tokushima. Chmn: S. Maekawa. Pres: T. Yamauchi. 20.30-16.10.
34) **Nippon System Inc,** 7-1, Yurakucho, Chiyodaku, Tokyo. Chmn: K. Uemura. Pres: N. Shikanai. 24 h. **N, Wrp:** 00.30, 01.30, 03.30, 05.30, 06.30, 07.30, 09.30, 11.30, 12.30, 13.30, 14.30, 15.30, 17.30, 23.30. **Ann:** "Okiki no Hoso wa 1310kc Shutsu-ryoku 50kW de ookuri shiteiru Nippon Hoso desu" ("This is Nippon Hoso"). **V.** by QSL-card.
35) **Tokai R. Broadc. Co,** 7, Tushincho, Higashi-ku, Nagoya. Pres: M. Abo. 20.00-18.00. **V.** by QSL-card.
36) **R. Chugoku Co,** Motomachi 34, Hiroshima. **Te:** 21-4191. **L.P:** Chmn: S. Fujita. Pres: T. Tsukifuji. Dir. Tec: T. Watanabe. **D.Prgr: N:** 21.00, 22.00, 22.55, 23.55, 00.55, 01.55, 02.45, 03.55, 06.00, 07.55, 12.45, 13.55. V. by QSL-card. Re. in E.
37) **Osaka Broadc. Corpo,** 27, Umeda-cho, Kita-ku, Osaka. **Te:** 361-1271. Pres: H. Maeda. 20.30-17.30. **Ann:** "Okiki no hoso wa Rajio Osaka desu". **Int-Sig:** Gong. **V.** by QSL-card. Recordings accepted.
38) **Shizuoka Broadc. System,** 46, Konyucho, Shizuoka. Chmn: Y. Komuratani. Pres: M. Oishi. 20.30-14.30.
39) **R. Kanto,** 19, Oimatsu-cho, Nishi-ku, Yokohama. Pres: K. Joyama. Man. Dir: H. Komamura. Pres: K. Koshida. 20.00-16.35. **V.** by QSL-card.
40) **Wakayama Broadc. Corp,** 15, Yoriaicho, Wakayama. Pres: O. Tsubota. 20.30-15.30.
41) **R. Gifu Broadc. Co. Ltd,** 9, Imakomachi, Gifu City. Pres: T. Yamada.
42) **Nishi-Nippon Broadc. Co,** 8-7, Marumonchi, Takamatsu. Chmn: T. Hirai. Pres: J. Hirai.
43) **Sapporo TV Broadc. Co,** 1 chome-Nishi, Minami Ichijo, Sapporo. Pres: Hagiwara.

44) **Sanyo Broadc. Co,** Uchisange 3-28, Okayama. **Te:** 23-2121. Chmn: H. Taniguchi. Pres: M. Tatsumi. 20.30-15.00. **V.** by QSL-card.
45) **R. Tochigi Co,** 357 Hanawadamachi, Utsunomiya. Pres: Y. Fukushima.
46) **Nihon Short-wave Broadc. Co. Ltd.**
*) = Sapporo; others Tokyo — **) = 2nd Prgr.

	Call	kHz	m	kW		Call	kHz	m	kW
46)	JOZ	3925	76.43	50	46)	JOZ6**	7230	41.49	10d
46)	JOZ5**	3945	76.05	10	46)	JOZ3	9595	31.27	50/10
46)	JOZ4*	3945	76.05	10d	46)	JOZ7**	9760	30.74	10d
46)	JOZ2	6055	49.55	50/10					

(G.C: Tokyo 139.42E/35.48N).
Addr: 9-15, Akasaka 1-chome, Minatoku, Tokyo. **Te:** 583-8151. **L.P:** Pres: M. Nakajima.
D.Prgr: 1st Prgr: 20.30-15.50 on 3925/6055/9595kHz; 20.30-23.00, 07.20-15.50 on 3945kHz. **N:** 23.30, 03.35, 08.30, 11.30. **2nd Prgr:** 23.00-07.20 on 3945/7230kHz; 01.00-05.00 on 9760kHz. **N:** 23.30, 03.35. **LL:** "Let's learn Japanese" (presented in English): Mon-Fri 23.00-23.15 (Prgr. 2), 10.45-11.00 (Prgr. 1). **Ann:** "Okiki no hoso wa Nihon Tampa Hoso desu" or "N.S.B.". **Int-Sig:** Slow tempo chime with Japanese musical instrument "Koto" at sign on and sign off. **V.** by QSL-card. Recordings accepted.

FAR EAST NETWORK (AFRTS)
The network serves the members of the US-Forces serving in the Far East — **Authority:** The st's in Japan broadcasts by authority of the Commander, US Forces, Japan, in co-operation with Japanese Radio Regulatory Bureau. St's are linked by land line and troppo scatter, and operated 24 h daily.
ADDR: Headquarters, Far East Network, APO, San Francisco 96267. **Te:** Tokyo 515.3769 — **L.P:** Chief: Lt. Col. H. H. Harlan. Dir. Prgr: J. F. Buey. Dir. Tec: H. Yaskal.
STATIONS: * = Short Wave (G.C: 139.37E/35.46N).

Location	kHz	kW	Location	kHz	kW
Tokyo	*810	10	Sasebo	1570	0.25
Itazuke	1550	10	Misawa	1580	0.25
Wakkanai	1580	0.1	Iwakuni	1580	1
Chitose	1570	0.25			

Short Waves (Tokyo)*
3910kHz 76.73m 10/1kW: 07.15-22.40 10kW, 22.50-07.05 1kW.
6155kHz 48.74m 10kW: 24 h.
11750kHz 25.53m 10/1kW: 22.50-07.05 10kW, 07.15-22.40 1kW.
15260kHz 19.66m 1kW: 24 h.
* = Power and direction vary to meet point to point commitments for rebroadc. from AFRTS st's in Japan, Korea, Okinawa, Taiwan — **N:** Every h on the h — **ANN:** "This is the Far East Network . . . . Far East Network, Tokyo (Chitose, Itazuke etc.)" plus freq's on shortwave — **V.** by QSL-card — **PUB:** Master schedule monthly).

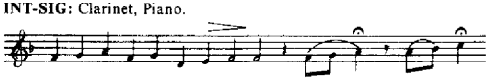
FM—TOKAI (Comm.)
ADDR: 17, Nishikubo-Akefune-cho, Minato-ku, Tokyo. **Te:** 502-0431. **STATIONS:** 2tr's on 84.5MHz (both 1kW) — **HOME SCE:** 20.30-16.00. **N:** 23.00, 03.00 (W), 06.00 (W), 08.00 — **ANN:** "Kochirawa FM-Tokai desu, JS2H" — **V.** by letter. Rp.

JORDAN

L.T: GMT + 2 h — **Pr.L:** Arabic, English.
THE BROADCASTING SERVICE OF THE HASHEMITE KINGDOM OF JORDAN (Gov.)
ADDR: P.O. Box 909, Amman. **Te:** 37711. **Cable:** Broadcasting. **L.P:** Minister of Inf: H. E. S. Abuzeid. Dir. Gen of Broadc: H. E. D. Rifai. Asst. Dir. Gen. Eng: A. Bayyat. Asst. Dir. Gen. Adm: Z. Ishakat. Dir. Tec: A. Bayyat. Dir. Prgr: S. Mashini.
STATIONS: Amman (exc. 677kHz Jerusalem): G.C: 35.56E/31.57N.

kHz	m	kW	kHz	m	kW	kHz	m	kW
677	443.0	200	9530	31.48	100	11870	25.27	100
800	375.0	200	9560	31.38	100	11970	25.06	100
870	344.8	5	9740	30.80	100	15170	19.78	100
6020	49.83	3	11810	25.40	5	15345	19.55	100
7155	41.92	100						

HOME SCE (Amman): **Arabic:** 03.30-07.30 on 677/800/7155/11810kHz: 07.30-14.00 on 800/9530/11810kHz; 14.00-23.00 on 800/7155/9530/11810kHz; also on 677kHz at 18.30-23.00. **N:** 05.00, 06.00, 08.00, 12.00, 13.00, 16.00, 17.00, 19.00, 21.00, 22.00.
FOREIGN SERVICE
English Sce: 10.30-12.30 on 870/7155kHz, 14.00-18.30 on 870/9560kHz; **N:** 11.30, 15.00, 16.00.
So. American Sce: Arabic, Spanish: 23.30-00.30 on 15170 (stand by 15345kHz) — **N:** Spanish 23.30, Arabic 00.00.
ANN: Arabic: "Hunna Amman Ithaatul Mamlakate Al Urdoniete Al Hashemieh". E: "This is Amman the Broadc. Sce. of the Hashemite Kingdom of Jordan". Sp: "Aqui R. Amman, R. Dif. Del Reino Hashemita De Jordania".
INT-SIG: Clarinet, Piano.



V. by QSL-card or letter. Recordings accepted.

KOREA (Democratic People's Republic)

L.T: GMT +9 h — **Pr.L:** Korean.
KOREAN CENTRAL BROADCASTING STATION
ADDR: Korean Central Broadc. Committee, D.P.R.K, Pyongyang.

STATIONS: Medium Waves: * = Foreign Sce.

kHz	m	Netw.	kHz	m	Netw.
635	472.4	*	735	408.2	II
655	458.0	II	785	382.2	I
685	438.0	II	800	375.0	II
725	413.8	I	1080	277.8	II

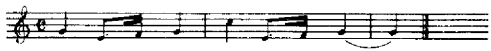
Short Waves:

kHz	m	kHz	m	kHz	m	kHz	m
2850	105.3	6250	48.00	6540	45.87	11765	25.50
4273	70.21	6290	47.69	6600	45.45	15520	19.33
4770	62.89	6480	46.30	7580	39.58	16320	18.38

HOME SCE: in Korean: 1st prgr: 20.00-15.00 on 725/785/2850/4273/6290/6600kHz — **2nd prgr:** 20.00-17.00 on 655/685/735/800/1080/4770/6250kHz.
FOREIGN SERVICE: I = Near & Middle East/Africa/Europe: II = So. Ea. Asia: III = Latin America; IV = Europe; V = Far East; VI = Japan.

English	Area	kHz	Spanish	Area	kHz
19.00-20.00	I	6540, 7580	23.00-24.00	III	11765,16320
02.00-03.00	I	6540, 7580	01.00-02.00	III	11765,16320
08.00-09.00	II	6540,15520	**Chinese**		
11.00-12.00	II	6480, 7580	22.00-23.00	II	6540, 11765
14.00-15.00	II	6480, 7580	10.00-11.00	II	6480, 7580
French			12.00-13.00	II	6480, 7580
15.00-16.00	II	6480, 7580	**Japanese**		
17.00-18.00	I	6540, 7580	03.00-04.00	VI	635,6540,7580
21.00-22.00	I	6540, 7580	09.00-15.00	VI	635, 6540
Russian			**Korean**		
16.00-17.00	IV	6540, 7580	20.00-21.00	I	6540, 7580
09.00-10.00	V	6480, 7580	00.00-01.00	III	11765, 16320
			04.00-05.00	II	6540, 15520

ANN: "This is Radio Pyongyang"
INT-SIG:



V. by QSL-card or letter — **PUB:** Prgr. Sched. "Radio Pyongyang" free on request.

KOREA (Republic of)

L.T: GMT + 9 h — **Pr.L:** Korean.
THE KOREAN BROADCASTING SYSTEM (Gov.)
ADDR: Overseas Broadcasting Station, Yejangdong 8, Chung-ku, Seoul. **Te:** 23-1676 — **L.P:** Management Bureau: Dir. H. S. Lee. Chief Eng: K. S. Hahn. Seoul Central Broadc. St (HLKA): Dir. J. Y. Kim. Overseas Broadc. st. (HLSA): Dir. Y. S. Lee. Chief Eng: Y. J. Kim.

STATIONS: Medium Waves *) Shortwave.

Name	Call	kHz	kW	Name	Call	kHz	kW
Yungwoll	HLCV	540	1	Andong	HLCR	940	1
Hongsung	HLCZ	540	1	Seoul	HLSA	*970	100
Jumchon	HLSC	540	1	Hwachon	HLCG	1030	1
Jinju	HLCJ	560	1	Chongju	HLKQ	1060	10
Jonju	HLKF	570	10	Chungju	HLCH	1090	1
Kangneung	HLKR	575	10	Yangku	HLSY	1115	0.25
Masan	HLKD	575	1	Wonju	HLCW	1150	1
Seoul	HLCA	*600	10	Jongsun	HLSW	1210	0.25
Jangheung	HLSM	600	1	Samchok	HLCI	1230	1
Bosung	HLSL	650	1	Ulchin	HLSU	1230	1
Chunchon	HLKM	*660	10	Sugipo	HLCF	1240	1
Seoul	HLKA	*710	500	Ullungdo	HLCU	1320	0.25
Taegu	HLKG	740	100	Yosu	HLCY	1340	1
Kwangju	HLKH	750	10	Pohang	HLCP	1420	0.25
Mokpo	HLKN	860	10	Hwangchi	HLSJ	1480	0.25
Taejon	HLKI	880	10	Kumchon	HLSK	1480	0.25
Pusan	HLKB	890	50	Hamyang	HLSH	1480	0.25
Inje	HLSE	910	0.25	Namwon	HLKL	1530	1
Chulwon	HLCO	920	1	Sunchon	HLKZ	1540	0.25
Hadong	HLSU	930	0.25	Sokcho	HLCS	1570	1
Cheju	HLKS	955	1				

Short Waves: 1) Seoul, 2) Suwon, 3) Talgu. (G.C: Seoul 126.55E/37.33N); Suwon 127.01E/37.16N).

	Call	kHz	m	kW		Call	kHz	m	kW
3)	HLK50	2510	119.5	10	2)	HLK5	9640	31.12	50
1)	HLK51	3910	76.73	5	2)	HLK41	15130	19.83	50
3)	HLK52	5975	50.21	10	2)	HLK41	15155	19.78	50
2)	HLK53	6065	49.46	10	2)	HLK41	15430	19.44	50
1)	HLK30	7190	41.72	1					

HOME SERVICE:
1st Prgr: (Korean): 20.00-17.00 on 710/2510/3910/5975/7190kHz — **N:** 21.00, 22.00, 23.00, 01.00, 03.00, 04.00, 06.00, 07.00, 08.00, 09.00, 10.00, 12.00, 13.00, 14.00 — **2nd Prgr:** (Korean): 20.00-17.00.

FOREIGN SERVICE:
I = General Sce; II = Europe; III = So. Ea. Asia; IV = USSR; V = Japan; VI = Asia; VII = No. America; VIII = Latin America; IX = China; X = Vietnam (for Korean troops); XI = No. Korea.

English	Area	kHz	English	Area	kHz
21.00-21.30	I	9640	08.00-08.30	III	9640
03.00-04.00	VII	15430	11.00-11.30	I	9640
05.00-05.30	I	9640	14.30-15.00	III	15430
06.00-07.00	II	15155			

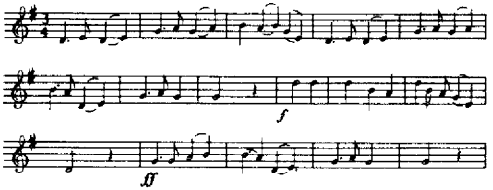
French	Area	kHz
07.00-07.30	II	15155
15.30-16.00	III	15430
Japanese		
01.00-02.00	V	9640
09.00-10.00	V	9640
13.00-14.00	V	6065/9640/970
15.00-15.30	V	890 (Pusan)
Russian		
21.45-22.00	IV/VI	9640
14.45-15.00	IV/VI	9640
Spanish		
02.30-03.00	VIII	15430

Chinese	Area	kHz
22.00-22.30	IX	9640
08.30-09.00	IX	6065/9640/970
14.00-14.30	VI	9640
15.00-15.30	III	15430
16.45-17.00	IX	710
Korean		
22.30-23.00	VI	9640
	X	15430
01.00-01.30	V	9640
02.30-03.00	VII	15430
04.30-05.00	X	15430
11.00-11.30	I	9640
09.00-13.00*	XI	6065
14.00-16.00	XI	6065
14.00-14.30	X	15430

*)includes VUNC relay 12.00-13.00.

NEWS: English: 21.00, 03.00, 05.00, 06.00, 08.00, 11.00, 14.30. **French:** 07.00, 15.30. **Russian:** 21.45, 14.45. **Spanish:** 02.30. **DX PRGR (in English):** Last Thurs of the month: 03.15, 05.15, 06.15, 08.15, 11.15, 14.45, 21.15 — **L.L:** "Let's speak Korean" (presented in English) Mon-Fri 03.30-03.35.

ANN: Korean: "KBS Seoul Choong-ang bang song kuk che il bang song im ni da HLKA" (KBS, this is the first network of Seoul Central Broadc. Station, HLKA). English: "This is the Voice of Free Korea the Overseas of the Korean Broadc. System in Seoul, Korea" — **INT-SIG:** Foreign Sce: Korean Folk Music played as Yang-geum with orchestra:



V. by QSL-card or letter — **PUB:** pamphlet, pennant free to listeners. "Korean Radio and TV" (English) yearly.

CHRISTIAN BROADCASTING SYSTEM (Non-comm, Indep.)

ADDR: 91 Chongno 2-ka, Seoul. **Te:** 741761 — **L.P:** Dir: E. O. De Camp. Mgr: Y. H. Choi. Dir. Tec: Y. H. Park.

STATIONS: 1) Seoul, 2) Taegu, 3) Pusan, 4) Kwangju, 5) Iri.

	kHz	m	kW		kHz	m	kW
HLKY[1]	840	357	50	HLKP[3]	1400	214	10
HLKT[2]	1000	300	1	HLCM[5]	1400	214	1
HLCL[4]	1000	300	1				

Short Wave: Seoul HLK60 6195kHz 48.43m 1kW.

HOME SCE: Korean: 20.20-15.00 — **N, Wrp:** 21.30, 22.30, 23.30, 02.30, 03.30, 04.30, 05.30, 06.30, 07.30, 09.30, 10.30, 11.30, 12.30, 13.30, 14.30 — **English** (for UN Forces): Sun 00.00-03.00, 12.30-13.00 (Rlg. prgr.).

ANN: "This is CBS, The Christian Broadc. System, HLKY, Seoul" — **V.** by letter. Recordings accepted — **FI:** By donations and limited commercials.

RADIO STATION HLKX (Rlg, Educ, Cult)

ADDR: IPO Box 2673, Seoul. **Te:** 3201316. **Cable:** Team Radio

L.P: Acting St. Mgr. & Dir. of Engineering: W. S. Winchell. Dir. of Prgr: L. Bird. Gen. Secr: I. S. Kim.

STATION: 1190kHz 275.2m 50kW.

HOME SCE. in Korean, Chinese, English, Russian, English: 06.00-11.00. **Russian:** 11.00-13.00, 15.10-17.10. **Mongolian:** 13.00-13.10. **Chinese:** 13.10-15.10, 17.10-19.10.

Korean: 21.00-01.00. **Bilingual** (Korean/English): 01.00-06.00.

ANN: "This is Team Radio Far East — HLKX, a missionary project of the Evangelical Alliance Mission" — **V.** by QSL-card or letter. Recordings accepted — **PUB:** ("Tidelines") (quarterly) — **FI:** by contributions and free will offerings.

DONG-A BROADCASTING SYSTEM (Comm.)

ADDR: P.O. Box 250, Seoul. **Te:** (73) 5220. **Cable:** Dongailbo — **L.P:** Dir. Gen: S. K. Kim. Dir. Tec: K. W. Shin. Dir. Prgrs: C. B. Choi.

STATION: Seoul 790kHz 379.7m 50kW.

HOME SCE. in Korean: 20.00-15.00. **N:** Every h on the h exc. 05.00, 10.00, 14.00.

HANKUK MUNHWA BROADC. CORPO. (Comm. Private)

ADDR: 15, Insadong chongno-ku, Seoul.

STATIONS:

	Call	kHz	kW		Call	kHz	kW
Taegu	HLCT	810	1	Taejon	HLCQ	1110	1
Kwangju	HLCN	820	1	Chonju	HLCX	1140	5
Seoul	HLKV	*900	50	Pusan	HLKU	1160	10

*) Key station

HOME SCE. in Korean: 20.00-16.00.

TONG-YANG BROADCASTING CO. LTD.

ADDR: 58-9 Seosomun-dong, Seoul. **Te:** 23-6193.

STATIONS: HLKC (Seoul) 640kHz 20kW — HLCD 89.1MHz.

HOME SCE: 20.00-16.00 (HLCD 15.00).

AMERICAN FORCES KOREA NETWORK

ADDR: Headquarters U.S. Army Element, American Forces Korea Network, APO San Francisco 96301, Calif. USA. **Te:** Yongsan 2495 — **L.P:** Commanding Officer: Lt. Col. B. Tennant. Dep. Commanding Officer: Capt. R. R. Marsh. Dir. of Prg's: Ed. Masters. Chief of Engineering: W. E. Ireland.

STATIONS: 24 h.

	kHz	kW		kHz	kW
Seoul[1]	560	5	Tongduchon[2]	1200	5
Taegu[6]	580	5	Osan[3]	1360	1
Munsan-Ni[4]	580	5	Unchon[7]	1400	1
Pusan[5]	780	5	Wonju	1440	1
Chunchon	1040	1	Kunsan[8]	1440	1
Kwangju	1150	0.25	Taejon	1480	1
Cheju-do	1150	0.25	Pohang	1510	0.25
Kwandae-Ri	1160	0.25	Pyangyangdo	1510	0.25

FM: Seoul[1] 102.7MHz 1kW — Hwaaksan 89.1MHz 0.25kW.

1"Vagabond"; 2"Bayonet"; 3"Comet"; 4"Tomahawk"; 5"Homesteader"; 6"Kilroy"; 7"Gipsy"; 8"Mercury", rel. 560kHz Kunsan, Chuncon;

N: Every h on the h — **ANN:** "This is the American Forces Korea Network". Local identification: "This is R. Vagabond in Seoul" etc. — **V.** by QSL-card. Re. to Hqs. AFKN, APO 96301, S. Francisco, Calif. USA. Rp.

VOICE OF THE UNITED NATIONS COMMAND (VUNC)

ADDR: 7th Psyop Gp, APO 96248.

STATIONS: Seoul 1100kHz 272.7m 5kW — Kangwha Isl. 1270kHz 236.2m 50kW — Chulwon 1240kHz 241.9m 5kW.

Short Waves (Seoul):

2635kHz 113.9m 0.3kW — 3985kHz 75.28m 0.3kW.

D.Prgr. in Korean: On 1240/1270/2635/3985kHz: 08.00-03.00. On 1100kHz: 08.00-22.00 — **V.** by QSL-card — **PUB:** Prgr. schedule yearly — **Note:** Certain VUNC prgr's are relayed by KBS on 6015kHz (50kW) at 06.00-07.00 and on 600kHz (500kW) at 20.35-21.00.

KOREAN ARMY RADIOSTATION

ADDR: "Voice of Hope", Seoul — **STATIONS:** 1320kHz 0.4kW — 6170kHz 0.5kW — **HOME SCE. in Korean:** 12.30-13.30. **N:** 12.32 — Announces in Korean & English asking for reports.

TAEGU UNIVERSITY RADIO (Priv, non-comm.)

ADDR: Chonggnu University, Taegu — **STATION:** HL2AW 7065kHz 0.01kW — **HOME SCE. in English & Korean:** 08.00-09.00 — **L.I. (English):** 08.30-08.40.

KUWAIT

L.T: GMT +3 h — **Pr.L:** Arabic.

KUWAIT BROADCASTING & TELEVISION SERVICE (Gov.)

ADDR: P.O. Box 193, Kuwait. **Te:** 39411. **Cable:** Alirshad — **L.P:** Minister of Guidance & Inf: H. E. Jaber Al-Ali Al-Salem Al-Sabah. Under Secr: Sa'dun Al-Jassim. Asst. Under Secr. (Adm. & Finance): A. A. Samad. Asst. Under Secr. (Broadc.): A. A. Ja'far. Chief Eng: A. E. Houty. Tec. Adviser: R. Karrer.

STATIONS: mw: 1/10/200kW; sw: 10/50/250kW (G.C: 47.53E/29.16N)

kHz	m	kHz	m	kHz	m	kHz	m
539	556.5	*4967.5	60.39	11940	25.12	17750	16.90
1133	264.8	**6055	49.55	°15150	19.80	21525	13.94
1345	223.2	9520	31.51				

* = throughout the year; ** = Wi. only; ° = Su only.

HOME SCE. in Arabic: 02.25-07.35, 09.00-21.15 — **N, Wrp:** 03.00, 05.00, 10.00, 13.00, 13.15 (Comm. ann.), 17.00, 19.00, 21.00 — **English:** 04.00-06.00, 16.00-19.00 on 1133/4967.5/11940kHz. — **N:** 05.30, 16.15, 17.15, 18.15 — **ANN:** "Huna Itha' at al Kuwait" — **INT-SIG:** "We" an old Kuwaiti tune played on violin.

V. by QSL-card. Recordings accepted.

LAOS (Kingdom of)

L.T: GMT +7 h — **Pr.L:** Laotian, French.

RADIODIFFUSION NATIONALE LAO (Gov.)

ADDR: Vientiane. **Te:** 2457 — **L.P:** Dir. Gen: Bounthamaly. Mgr: Phimavong. Dir. Tec: T. M. Souvannavong. Dir. of prgrs: M. Chanthasouxad.

STATIONS: (G.C: 102.33E/34.08N): 640kHz 468.8m 10kW — 6130 kHz 48.94m 25kW.

HOME SCE. in Laotian, French, Vietnamese: 23.00-01.45, 05.00-08.15, 10.00-14.45 — **N: Laotian** 23.30, 05.30, 12.00.

French 00.00, 06.45, 13.00. **Vietnamese** 14.00 — **English Lesson:** 12.45.

ANN: F: "Ici la Radiodiffusion Nationale Lao" — **INT-SIG:** Music on Khéne, Instrument of Bamboo — **V.** by QSL-card. Rp. Recordings accepted. Reports in English or French — **F.PL:** 50kW.

Vientiane, Local Sce: 950 & 1300kHz 0.3kW.

Vientiane, Lao Armed Forces: 1095kHz.

LEBANON

L.T: GMT +2 h — **Pr.L:** Arabic, French, English.

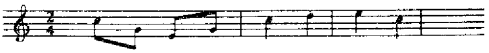
RADIO LEBANON (Gov.)

ADDR: Ministry of Information, Beirut. **Te:** 251880. **Cable:** Radioliban — **L.P:** Dir. Gen: C. Rizk. Dir. of Broadc: K. Hage Ali. Dir. Tec: J. Rouhayem. Dir. Prgr: C. Menassa.

STATIONS (G.C: 35.38E/24.08N): 989kHz 10kW, others 100kW

kHz	m	kHz	m	kHz	m
836	358.9	9545	31.43	15340	19.56
989	303.3	11785	25.46	15350	19.54
5980	50.17				

HOME SCE: Prgr. I (Arabic): On 836kHz: 03.55-07.30, 09.25-23.30; On 5980kHz: 04.30-07.30, 16.15-18.20; On 9545kHz: 09.30-16.00 — **N:** 05.30, 06.00, 07.00, 10.00, 11.00, 12.00, 13.00, 16.00, 17.00, 18.00, 20.00, 22.00.
Prgr. II: On 989kHz: French: 05.30-09.30, 11.00-15.00, 17.00-22.00 — **N:** 05.30, 11.30, 17.30, 19.55 — **L.L:** English: Thurs 17.15, French: Wed 17.15 — **English:** 15.00-17.00 — **N:** 15.00.
F.M. = 98.7MHz 3kW: 12.30-22.00 (Music)
FOREIGN SCE: 18.30-20.30 on 15350kHz to Africa in English, Arabic, French — 23.00-01.00 on 15340kHz to So. America in Portuguese, Arabic, Spanish — 01.30-04.00 on 11785kHz to No. America (Europe) in Spanish, French, Arabic.
N: English 18.30, 02.30. **French** 20.00, 01.30. **Portuguese** 23.00. **Spanish** 00.30, 03.30. **Arabic** 19.00, 23.30, 02.00, 03.00.
ANN: Arabic: "Izaat Loubnan Min Beyrouth". **F:** "Ici R. Liban émettant de Beyrouth". E: "R. Lebanon presents the English prgr". **Sp:** "Aqui Beyoruth El Libano Transmitiende para America del Sur" (or "America del Norte"). P: "Aqui Beyrouth, O Libano falande as Brasil".
INT-SIG: Guitar (opening notes from the Lebanese National Anthem):



PUB: "Houna Beyrouth" (Ici Beyrouth) monthly, free upon request.

MACAU (Portuguese China)

L.T: GMT +8 h — **Pr.L:** Portuguese, Chinese, Cortar.

EMISSORA DE RADIODIFUSAO DE MACAU Gov.)
ADDR: Macau. **Te:** 4491-25. **Cable:** ERM — **L.P:** Dir. Gen: R. Salazar Trindade. Dir. Tec: F. A. de Macedo Pinto.
STATIONS: 1200kHz 0.25kW — FM: 98.0MHz 1kW (relay 1200kHz & 900kHz) — **HOME SCE: Portuguese:** 23.00-00.30, 05.00-06.30, 12.00-15.00 — **Chinese:** 09.30-11.30 — **ANN:** "Aqui Emissora de R. difusão de Macau" — **V.** by letter or QSL-card.

EMISSORA VILA VERDE (Priv.-Comm.)
ADDR: R. Francisco Xavier Pereira 123, Macau. **Cable:** Vila. **Te:** 3355. **L.P:** St. Mgr: K. Hoi.
STATIONS: 735kHz 408m 10kW — **FM:** 89.0MHz 5W.
HOME SCE: Chinese: 23.00-16.00 on 735kHz — **INT-SIG:** chimes — **V.** by letter or QSL-card.

MALAYSIA (Federation of)

L.T: GMT +7½ h — **Pr.L:** Malay, English.

RADIO MALAYSIA (Gov.)
ADDR: Dept. of Radio, P.O. Box 1074, Kuala Lumpur. **Te:** 23551. **Cable:** Broadcasts — **L.P:** Dir. Dol Ramli. Dep. Dir: Murtadza Za'ba. Contr. of Prgr's: Hashim Hassan. Chief Eng: Sen Gupta: Publicity Officer: Felix Puerto.
STATIONS: J. B. = Johore Bahru; K.L. = Kuala Lumpur; K.B. = Kota Bahru; K.T. = Kuala Trengganu; M = Malay, I = Indian, C = Chinese, E = English.

Location	kHz	m	kW	L	Location	kHz	m	kW	L
Ipoh	550	545.5	10	M	J.B.	940	319.1	10	E
J.B.	570	526.3	10	M	K.T.	960	312.5	10	E
K.L.	590	508.3	20	M	Malacca	1005	298.5	10	M
Penang	660	454.5	10	M	Penang	1040	288.5	10	C/I
K.B.	700	428.6	10	M	K.L.	1070	280.4	20	C/I
Ipoh	740	405.4	10	E	Kuantan	1140	263.2	10	E
K.T.	765	392.2	10	M	Malacca	1160	258.6	10	E
Kuantan	810	370.4	10	M	J.B.	1220	245.9	10	C/I
K.B.	840	357.1	10	E	Ipoh	1260	238.1	10	C/I
Penang	860	348.8	10	E	Malacca	1280	234.4	10	C/I
K.L.	885	339.0	20	E					

Short Waves: (a) Kuala Lumpur (Kajang), (b) Penang. (G.C: a) 101.46E/03.01N-b) 100.19E/05.25N)

kHz	m	kW	L	kHz	m	kW	L
4790b	62.63	10	M	7200b	41.67	10	M
4845a	61.92	10	I	7300b	41.09	10	E
4985b	60.18	10	E	9515b	31.53	10	M
5965a	50.29	50	M	9660a	31.06	50	E
6025a	49.79	10	C	9710a	30.90	50	M
6135a	48.90	10	I	11900a	25.21	100	*
6175a	48.58	100	*	15280a	19.63	100	*
7110a	42.19	50	C				

*) = "Voice of Malaysia" (Overseas).
HOME SCE. in Malay, English, Chinese, Indian:
Malay on 550/570/590/660/700/765/810/1005/4790/5965/7200/9515/9710kHz:
D: 22.30-16.30 — **N:** 23.00, 24.00, 01.00, 03.30, 06.00, 09.30, 10.45, 12.30, 14.30, 16.00 — **For Schools:** Mon: 01.30-03.00, 06.30-08.00, Tues/Wed/Thurs: 01.30-02.30, 06.30-07.30.
English on 740/840/860/885/940/960/1140/1160/4985/9660/7300kHz.
Mon-Fri: 22.30-01.30, 05.30-06.30, 09.30-16.30; Sat: 22.30-01.30, 05.30-16.30, Sun: 22.30-16.30 — **N:** 23.30, 00.30, 06.00, 09.30, 11.00, 14.00, 16.00 — **For schools:** Mon/Wed: 01.30-03.00, 06.30-07.30, 08.30-09.00; Tues: 01.30-02.30, 06.30-07.30.
Chinese on 1040/1070/1220/1260/1280/6025/7110kHz: Mon-Fri: 22.55-01.30, 04.30-05.45, 08.30-16.30, Sat/Sun: 22.55-16.20 — **N:** 23.00, 23.30, 24.00, 00.30, 04.35, 05.20, 05.35, 09.30, 12.30, 13.30, 14.30, 15.20, 16.00 — **For Schools:** Mon/Tues/Wed: 01.30-02.30, 07.30-08.30.
Indian on 1040/1070/1220/1260/1280/4845/6135kHz: Mon-Fri: 22.00-00.30, 05.45-07.30, 09.00-15.30; Sat: 22.00-03.30, 05.45-15.30; Sun: 22.00-15.30 — **N:** 22.45, 24.00, 06.00, 09.30, 11.30, 15.15 — **For Schools:** Mon/Wed/Thurs: 03.00-04.00, 07.30-08.30.
OVERSEAS SERVICE ("Voice of Malaysia").
On 6175 (135°)/11900 (25°)/15280kHz (82°)
English: 06.25-08.55. **N:** 06.30, 08.30.
Indonesian: 09.00-14.00. **N:** 09.00, 10.45, 12.45, 13.50.
Mandarin: 14.00-16.00. **N:** 14.30, 15.30.
ANN: Malay: "Ini-lah R. Malaysia" E: "This is R. Malaysia" — **INT-SIG:** First bar of National Anthem "Negara Ku" (Chimes) — **V.** by QSL-card and letter. Recordings accepted — **F.Pi:** 1 × 250kW sw-tr for Overseas Sce. at Kajang; 3 × 50kW medium Wave tr's at Johore Bahru — **PUB:** Prgr. sched. for Home Sce. (Malay, English, Mandarin, Tamil) and Overseas Sce. (Indonesian, Mandarin, English) weekly — **FI:** By state and adv — **ALF:** $12.

BBC FAR EASTERN STATION
Addr: P.O. Box 416, Johore Bahru, Malaysia.
STATIONS (G.C: 103.48E/01.32N) (Tr. located at Tebrau):

kHz	m	kHz	m	kHz	m	kHz	m
3915	76.64	7235	41.47	11750	25.53	15310	19.60
6010	49.92	9570	31.35	11805	25.14	15435	19.44
6080	49.34	9580	31.32	11850	25.32	17880	16.78
7120	42.13	9725	30.85	11955	25.09		

Relays of BBC World Service and Sce's to Asia in Bengali, Burmese, Chinese, Hindi, Indonesian, Japanese, Sinhala, Tamil, Thai, Urdu and Vietnamese — For full schedule see BBC entry under Great Britain.
V: The BBC welcomes reception reports, which are acknowledged with a special card. Re. to C.E.X.B. British Broadcasting Corporation, Bush House, London, W.C.2. Recordings accepted.

R. RAAF BUTTERWORTH (Mil)
ADDR: RAAF Base, Butterworth c/o GPO, Penang. **Te:** 32101 — **L.P:** Secr: Mrs. S. A. McKenzie — **STATION:** 1445kHz 207.6m 0.4kW. **D.PRGR. in English:** Mon-Fri 22.30-16.00; Sat 23.30-17.30; Sun 04.00-16.30 — **ANN:** "This is the Voice of the Royal Australian Air Force in Malaysia, Radio RAAF Butterworth".

REDIFFUSION (MALAYA) LTD
Kuala Lumpur (Headquarters): P.O. Box 570. **Te:** 81941. **Cable:** Rediffuse. **L.P:** Man. Dir: G. H. Oldridge Esq. Gen. **Mgr:** M. J. Bleeck — Two simultaneously wired broadc. networks. Originating own prgr's and rel. "R. Malaysia", BBC etc — **Penang:** P.O. Box 559. **Te:** 61761. **Cable:** Rediffuse. Gen. Mgr: M. J. Bleeck. Two simultaneously wired broadc. networks. Originating own prgr's and rel. "R. Malaysia", BBC etc. **Ipoh:** 127 Jalan Pasir Puteh, Ipoh, Perak. **Te:** 72173. Gen. Mgr: M. J. Bleeck. Two simultaneously wired broadc. networks. Originating own prgr's and relaying Rediff. Kuala Lumpur, R. Malaysia, BBC, etc.

MALDIVE ISLANDS

L.T: GMT + 5½ h — **Pr.L:** Maldivian.

MALDIVE ISLANDS BROADCASTING SCE. (Gov.)
ADDR: Malé. **Te:** 307. **L.P:** Dir: U. A. Khaleel. Chief Engineer: Q. A. Wickramasinghe.
STATIONS (Coverage: Ceylon, India, Pakistan)

kHz	m	kW	kHz	m	kW
1507	199.1	7	6150	48.78	2.7
3331	90.06	15	7150	41.96	2.7
4740	63.29	30	9552	31.41	15

HOME SCE: Maldivian: 01.00-03.00 on 7150kHz, 03.00-05.00 on 6150kHz, 05.00-07.00 on 1507kHz, 07.00-09.00 on 9552kHz, 09.30-13.00 on 6150kHz, 13.00-15.00 on 3331kHz — **N:** 02.30, 04.30, 06.30, 08.30, 12.30, 14.30 — **English:** 15.30-17.30 on 4740kHz.
Reported using 6795kHz at 13.00-15.00 and 14250kHz at 15.30-17.30.
ANN: "Maldive Islands Broadc. Sce" — **V.** by letter. Recordings accepted. Reports to be sent to M.I.B.S. External Section — **ALF:** Rs 12.00.

MONGOLIA (People's Rep.)

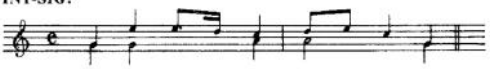
L.T: GMT +8 h — **Pr.L:** Mongolian.

ULAN BATOR RADIO (Gov.)
ADDR: CPO Box 365, Ulan Bator. **Cable:** Mongolian Radio.
L.P: Dir. of Foreign Rel: B. Dagva.
STATIONS: Ulan Bator & Bain-Ulgei.

kHz	m	kW	kHz	m	kW	kHz	m	kW
209	1435	60	6105	49.14	5	9540	31.45	50
227	1321	150	6170	48.62	5	9575	31.33	50
3972	75.52	25	6383	48.00	50	10650	28.17	5
4085	73.44	50	7120	42.13	5	11810	25.40	50
4762	63.00	50	7260	41.32	50	11850	25.32	50
5052	59.38	50	7340	40.87	50	11905	25.20	25
5960	50.34	50						

HOME SCE: 1st Prgr: 21.55-13.50 on 227/4085/5052/7260/11850kHz.
2nd Prgr: 09.00-12.10 on 6183/5960kHz.
FOREIGN SCE: English (to Far East & So. Ea. Asia): D exc. Mon 22.00-22.30 on 11810/11850kHz, 12.20 14.50 on 7340/9540kHz. **N:** 22.00, 12.20 — **Chinese:** D 13.00-14.00 on 7120/10650kHz —

Mongolian: 12.30-13.30 (Wed/Fri) on 6383/7260kHz.
ANN: "Ankharari Ulanbatras Jarsj Baina" (Attention: This is Ulan Bator Calling) — **V.** by letter. Recordings accepted.
INT-SIG:



NEPAL

L.T: GMT + 5.40 h — **Pr.L:** Nepali.

RADIO NEPAL (Gov.)
ADDR: Dept. of Broadc, His Majesty's Go. of Nepal, Kathmandu. Te: 11569.
STATIONS: (G.C: 85.20E/27.45N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
790	379.7	10	4600	65.22	5	7105	42.22	5
1500	200.0	0.25	4790	62.63	5	9590	31.28	100

HOME SCE: 02.20-04.20, 07.20-09.20 (sw only, 13.20-15.20. **N. in English:** 03.00, 15.00. **N. in Nepali:** 02.40, 14.50.

EXTERNAL SCE: Sat 09.35-10.20 on 7105kHz for Nepalese abroad; Test-tr's 13.20-16.20 on 9590kHz, 15.30-15.50 on 790/4790kHz.

ANN: Nepali: "Yo R. Nepal Ho". Newari: "Tho R. Nepal kha". English: "This is R. Nepal" — **INT-SIG:** Instruments used: Conch-Shell, Violin, Piano and Jal-Tarang — **V.** by QSL-card. Rp — **AD:** between 07.20-09.20.

PAKISTAN

L.T: We. Pakistan: GMT + 5 h. Ea. Pakistan: GMT + 6 h — **Pr.L:** Urdu, Bengali.

RADIO PAKISTAN (Gov.)
1st Addr: Ferozsons Bldg, Hardinge Road, Rawalpindi. **L.P:** Dir. Gen: S. M. Husain. Joint Dir. Gen: M. Iqbal. Dir. Listeners's Research: M. Qureshi. Dir. of Educ. Broadc: A. H. Kaleem. Dir. of Adm: A. A. Hanafi. Dir. of Publicity Coordination: M. Yousuf Bangash. Dir. of Prgr. Planning: A. H. Azmi.
2nd Addr: Pak. Secretariat No. IV, Chaklala, Rawalpindi. **L.P:** Chief Eng: S. A. Aziz. Dep. Chief Eng.(II): M. G. Baig. Dep. Chief Eng.(III): Irfanullah. Installation Eng: S. Ahmed.
3rd Addr: 71 Garden Road, Karachi. **L.P:** Dep. Dir. Gen: Z. Husain. Dir. of Liaison: O. Mohajir. Dir. Music: A. S. Qureshi. Research Eng: S. Hasan.
4th Addr: Block No. 73, Pak. Secretariat, Karachi. **L.P:** Dep. Chief Eng.(I): M. A. Rahman. Dep. Chief Engineer(IV): I. A. Ansari. Maintenance Eng: B. M. Adhikari. Installation Eng: Amanullah & S. H. Ansari.
5th Addr: Implementation Cell, c/o Reg. Eng. Dacca. **L.P:** Installation Eng: M. Habibullah.
6th Addr: Broadc. House, Bunder Road, Karachi. **L.P:** Dir. N: K. S. H. Ansari. Dir. External Sces: S. A. Gilani. Dir. of Transcription Sce: Y. Khan. Dir. of Monitoring: A. Razvi.
STATIONS:

Medium Waves:

	kHz	m	kW		kHz	m	kW
Peshawar	580	517.2	10	Rangpur	1050	285.7	10
Lahore I	630	476.2	100	Lahore II	1090	285.7	10
Dacca II	690	435.1	100	Rajshahi	1080	277.7	10
Quetta	750	400.0	10	Sylhet	1140	263.2	2
Karachi I	830	361.4	10	Rawalpindi	1150	260.8	10
Chittagong	870	344.8	10	Dacca I	1170	256.4	10
Hyderabad	1010	297.0	10	Karachi II	1450	206.9	—

Short Waves: Karachi 10/50kW (G.C: 67.00E/24.35N):

kHz	m	kHz	m	kHz	m	kHz	m
4980	60.25	7275	41.24	11875	25.26	17745	16.91
6070	49.42	9645	31.10	11885	25.24	17770	16.88
7125	42.11	9700	30.93	11890	25.23	17800	16.85
7135	42.05	9750	30.77	15100	19.87	17815	16.84
7215	41.58	9755	30.75	15325	19.58	17855	16.80
7235	41.47	11745	25.54	15335	19.56	17945	16.72
7240	41.44	11855	25.31	15360	19.53	21590	13.90

Islamabad: 100kW

kHz	m	kHz	m	kHz	m	kHz	m
11705	25.63	11970	25.06	15110	19.85	15380	19.50

Dacca: 7.5/10/100kW (G.C: 90.25E/23.45N):

kHz	m	kHz	m	kHz	m	kHz	m
4750	63.16	9750	30.77	11672	25.70	17745	16.91
5985	50.13	11640	25.77	15520	19.33	21685	13.83
9740	30.80						

Peshawar: 10kW (G.C: 71.30E/34.00N):

kHz	m	kHz	m	kHz	m
4950	60.60	6140	48.86	7170	41.84

Quetta: 10kW (G.C: 67.00E/30.15N):

kHz	m	kHz	m	kHz	m
4915	61.03	5965	50.29	7225	41.52

Rawalpindi: 10kW (G.C: 73.00E/33.30N):
6120kHz 49.02m.

MEDIUM WAVE PROGRAMMES:
Karachi (Urdu, English, Bengali): 01.30-03.30, 06.00-19.00(Sun 01.30-19.00) — **Lahore** (Urdu, English, Punjabi): 01.30-03.30(Sun 05.00), 06.00-08.30, 11.30-19.00 — **Rawalpindi** (Urdu, English, Potohari): 01.30-03.30(Sun 05.30), 06.00-08.30, 10.45-17.30 — **Peshawar** (Urdu, English, Pushto): 01.30-03.30(Sun 04.30), 06.00-08.30, 11.30-17.30 —

RADIO MALAYSIA

FEDERAL HOUSE
P.O. BOX 1074
KUALA LUMPUR

Telephone: 23551/5
Cable: Broadcasts Kuala Lumpur

Ini-lah
SUARA MALAYSIA!
THE VOICE OF MALAYSIA

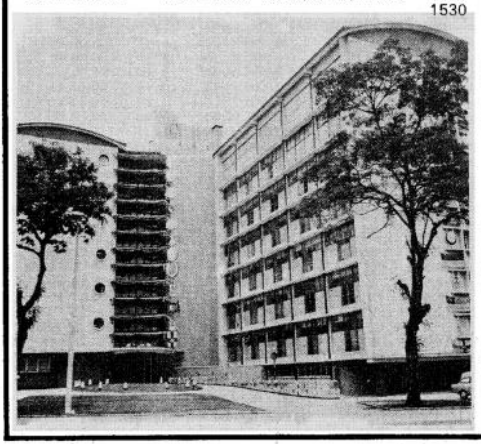
informs
entertains
educates

The Voice of a Friendly People invites you to listen to its Overseas Service

ON: **49 metres** (6175 kc/s) **25 metres** (11900 kc/s) and **19 metres** (15280 kc/s)

IN:

Language	*GMT*	*kc/s*	*News*
ENGLISH	0625–0855	15280, 6175, 11900	0630 0830
INDONESIAN	0900–1400	15280, 6175, 11900	0900 1045 1245 1350
MANDARIN	1400–1600	15280, 6175, 11900	1430 1530



Hyderabad (Urdu, English, Sindhi): 01.30-03.30, 06.00-08.30, 11.30-17.30(Sun 01.30-17.30) — **Quetta** (Urdu, Pushto, English): 01.30-03.30 (Sun 04.30), 06.00-08.30, 11.30-17.30 — **Dacca** (Bengali, Urdu, English): 01.00-03.00, 06.00-09.00(Sun, Fri 01.00-09.00), 10.30-18.00 — **Chittagong** (Bengali, Urdu, English): 01.00-03.00, 06.00-09.00(Sun 01.00-09.30), 10.30-17.10 — **Rajshahi** (Bengali, Urdu, English): 01.00-03.00, 06.00-09.00(Sun, Fri 01.00-09.00), 11.00-17.10 — **Sylhet** (Bengali, Urdu, English): Relays Dacca from 10.30-17.10.

Abbreviations: K = Karachi, L = Lahore, R = Rawalpindi, P = Peshawar, Q = Quetta, D = Dacca, H = Hyderabad, Ra = Rajshahi, C = Chittagong, S = Sylhet.

NEWS: English (Nat): 02.10, 15.00, K, H, L, R, P, Q, D, C, Ra (at 15.00 15.15 also S) — **Urdu** (Nat): 02.00, 06.05, 08.00, 12.00, 14.15, 17.05, K, H, L, R, P, Q, D, C, Ra (12.00, 14.45, 17.05 also S) — **Urdu** (local): 13.15 K, 14.05 H, 12.20 L, R, 12.30 P, 12.55 Q, D, S, 14.00 Ra, C — **Bengali** (Nat): 01.45, 06.00, 08.10, 12.10, 14.00, 17.00 K,H,L,R,P,Q,D,C,Ra (14.00 K,D,C,Ra,S) — **Bengali** (local): 13.50 D,S, 13.55 Ra, C, 14.00 Ra,C — **Pushto** (Nat): 02.50 K,P,Q, 08.20 P, 12.20 P,Q — **Pushto** (local): 00.30 Q, 13.45 P — **Sindi:** 02.50, 12.20 (14.00 local)H — **Baluchi:** 03.00, 13.00 (13.10 local)Q,K — **Kashmiri:** 12.35 K.

SHORT WAVE PROGRAMMES: *) Sun only.

Karachi to We. Pakistan: 01.30-03.30 on 4980/6070kHz, 03.45-06.00 (Sun) on 7135/9645kHz, 06.00-11.30 on 7135/9645kHz, 12.00-12.30 on 7135/9645kHz, 13.00-13.10 on 6070/7275kHz, 14.15-15.45 on 6070/7275kHz, 17.00-17.10 on 4980/6070kHz.

01.30-01.45	Rlg. Prgr.	08.00-08.10	N. in Urdu
01.45-02.00	N. in Bengali	08.10-08.20	N. in Bengali
02.00-02.10	N. in Urdu	08.20-08.30	N. in Pushto
02.10-02.20	**N. in English**	08.30-11.30	Comm. Sce.
02.20-02.30	Rlg. Prgr.	12.00-12.10	N. in Urdu
02.30-02.35	Nat. Prgr.	12.10-12.20	N. in Bengali
02.50-03.00	N. in Pushto	12.20-12.30	N. in Pushto
03.00-03.10	N. in Baluchi	14.15-14.45	National Hookup
03.10-03.30	Karachi Prgr.	14.45-15.00	N. in Urdu
*03.45-06.00	Karachi Prgr.	15.00-15.15	**N. in English**
06.00-06.05	N. in Bengali	15.15-15.20	Comm. Sce. Urdu
06.05-06.10	N. in Urdu	15.20-15.45	National Hookup
06.10-07.00	Karachi Prgr.	17.00-17.65	N. in Bengali
07.00-08.00	Comm. Sce.	17.05-17.10	N. in Urdu

Karachi to Ea. Pakistan: 01.30-03.30 on 11885/15335kHz, 05.15-06.00 (Sun), 06.00-08.20 on 17770/21590kHz, 12.00-12.20 on 17800/21590 kHz, 14.00-15.45 on 11885/15325kHz, 17.00-17.10 on 9750/11875kHz.

01.30-01.45	Rlg. Prgr.	08.10-08.20	N. in Bengali
01.45-02.00	N. in Bengali	12.00-12.10	N. in Urdu
02.00-02.10	N. in Urdu	12.10-12.20	N. in Bengali
02.10-02.20	**N. in English**	14.00-14.15	N. in Bengali
02.20-02.35	Rlg. Prgr.	14.15-14.45	National Hookup
02.35-03.30	Karachi Prgr.	14.45-15.00	N. in Urdu
*04.15-07.00	Karachi Prgr.	15.00-15.15	**N. in English**
06.00-06.05	N. in Bengali	15.15-15.20	Comm. in Bengali
06.05-06.10	N. in Urdu	15.20-15.45	National Hookup
06.10-07.00	Karachi Prgr.	17.00-17.05	N. in Bengali
07.00-08.00	Comm. Sce.	17.05-17.10	N. in Urdu
08.00-08.10	N. in Urdu		

Kashmiri Sce (from Karachi): 12.35-13.20 on 7240/9750kHz.

Inter-Wing Sce (from Islamabad): 01.30-03.30 on 11705/15380kHz, 11.30-14.15 on 15110kHz, 14.30-17.30 on 11970kHz.

Inter-Wing Sce (from Dacca): 01.30-03.30 on 15520kHz, 10.30-17.30 on 11640kHz.

ZONAL SERVICES: Dacca:

Times	kHz	To We. Pakistan	kHz
01.00-03.00	5985	01.00-02.30	11672
*01.00-03.45	5985	*01.00-04.15	11672
*04.00-09.00	9740	*04.30-09.00	21685
06.00-09.00	9740	06.00-09.00	21685
10.30-13.30	9740	10.30-13.30	17745
13.45-17.10	4750	13.45-17.10	11672

Peshawar	kHz	Quetta	kHz
01.30-03.30	4950	01.30-03.30	4915
*01.30-04.00	4950	*01.30-03.45	4915
06.00-08.30	7170	*04.00-08.30	7225
11.30-12.45	6140	06.00-08.30	7225
13.00-17.30	4950	11.30-13.45	5965
Rawalpindi			
10.45-11.45	6120	14.00-17.30	4915

EXTERNAL SERVICES:

I = So. Ea. Asia; II = So. Ea. Africa; III = GOS(Far East); IV = Indonesia; V = Burmese; VI = India; VII = GOS(Middle East); VIII = Afghanistan/Iran; IX = Iran; X = Arabic countries; XI = Turkey; XII = United Kingdom.

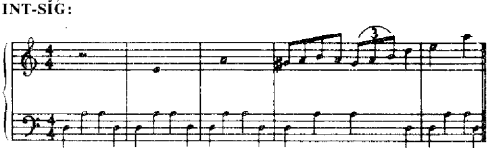
Time	See	kHz	Beams	Languages
00.30-01.15	I	11885, 15360	96°	**English**
03.45-05.00	II	15335, 17745	232°	*
08.30-08.45	III	17855, 21590	96°/120°	**English**
08.45-09.30	IV	17855, 21590	96°/120°	**
09.45-10.30	V	17815, 21590	96°	Burmese
10.45-11.45	VI	9755, 11745	96°/120°	***
13.35-13.50	VII	11875, 15100	290°/312°	**English**
		17945, 21590	300°/317°	
16.00-16.45	VIII	6070, 7215	20°/312°	****
16.00-16.45	IX	7275, 9700	300°/22°	Persian
17.30-18.30	X	11890, 15100	300°	Arabic
18.45-19.30	XI	9755, 11745	317°	°°
19.45-20.30	XII	7235, 9755	317°	**English**

*) Urdu, Gujrati, English, Swahili — **) Indonesian, English — ***) English, Tamil, Hindi — ****) Afghan, Persian, Turki — °°) English/Turkish.

N. in English: 00.45, 04.30, 08.30, 09.00, 11.15, 13.35, 19.00, 20.00.

ANN: E: "This is Radio Pakistan calling listeners in (name of target country)".

INT-SIG:



V. by QSL-card — **PUB:** monthly "Pakistan Calling" in English, Urdu, Bengali (fortnightly). Monthly in Arabic, Persian, Burmese.

PHILIPPINES

L.T: GMT + 8 h — **Pr.L:** English, Tagalog, Ilocano, Visayan.

RADIO CONTROL OFFICE,
Dept. of Public Work and Communications, Manila.
Stations: Educ. and Gov: 3), 6), 8), 37). **Rlg:** 1), 4). Other st's priv. comm. 2) is Gov. owned, but broadc. comm. prgr's.

STATIONS: Short Waves: Location Manila exc. where indicated.

	Call	kHz	m	kW	Name & h. of tr.
1)	DYB4	3277	91.55	0.3	Nat. Council of Churches Broadc. Netw, Dumaguete City (inactive)
2)	DUB4	3286	91.29	2.5	Philippine Broadc. Sce: 21.00–15.00
3)	DZCA	3305	90.77	1	Nat. Civil Defense Adm: 08.00–11.00
4)	DZB2	3345	89.68	1	Far East Broadc. Co: 20.30–15.00
5)	DZB3	3945	76.05	0.5	Notre Dame Broadc. Corp, Cotabato City: 22.00–14.00
6)	DZB6	4945	60.67	0.5	Nat. Teachers' College: W 09.30–11.00, Sun 01.00–03.00
3)	DZCA	5970	50.25	1	Nat. Civil Defense Adm: 08.00–11.00
4)	DZH6	6030	49.75	2	Far East Broadc. Co: 24h
1)	DYH4	6055	49.55	0.25	Nat. Council of Churches Broadc. Netw, Dumaguete City: 21.00–14.00
4)	DZF4	6120	49.02	50	Far East Broadc. Co: 21.45–22.45
2)	DUH2	6170	48.62	**	Philipp. Broadc. Sce: 21.00–15.00
8)	DUH9	7160	41.90	1	Univ. of the Philippines, Quezon City: 09.00–13.00
8a)	DZMT	7180	41.78	1	Associated Broadc. Corpo, Manila
4)	DZI9	7225	41.52	2	Far East Broadc. Co: 21.45–23.25, 13.30–17.30
9)	DXH2	7280	41.21	0.5	Mindanao Broadc. System, Davao City: 23.00–08.00
4)	DZH7	9505	31.56	50	Far East Broadc. Co: 22.30–23.45
1)	DZH5	9630	31.15	50	SEARV, Manila: 11.00–16.30 (tests)
10)	DZH5	*9690	30.96	0.25	R. Veritas, Manila.
4)	DZF5	9715	30.89	10/50	Far East Broadc. Co: 21.45–23.15, 11.45–17.30
4)	DZH8	11855	25.31	50	Far East Broadc. Co: 22.45–23.25, 10.30–12.45, 16.30–17.30
1)	DZH6	11875	25.26	50	SEARV, Manila: 11.00–16.30 (tests)
4)	DZE9	11890	25.23	50	Far East Broadc. Co: 09.00 (Sun 07.15)–10.30
4)	DZF2	11920	25.17	50	Far East Broadc. Co: 21.30–23.30, 10.00–16.15
4)	DZH9	15300	19.60	10/50	Far East Broadc. Co: 23.30–03.00, 03.00–06.00 (Sun), 08.30–16.15
4)	DZF3	15385	19.50	50	Far East Broadc. Co: 21.45–03.00, 17.35–18.00 (Sun 18.15)
1)	DZH7	15420	19.46	50	SEARV, Manila: 11.00–16.30 (tests)
4)	DZF8	15440	19.43	50/3	Far East Broadc. Co: 23.45–05.30, (Sun 07.00), 09.30–10.30, 17.35–18.15
1)	DZH8	17715	16.93	50	SEARV, Manila: 11.00–16.30 (tests)
4)	DZI6	17810	16.84	10/2	Far East Broadc. Co: 22.30–23.45, 00.00–05.30, 05.30–06.00 (Sun), 08.30–09.45, 10.00–11.30
1)	DZH9	21470	13.97	5	SEARV, Manila: 11.00–16.30 (tests)
4)	DZI9	21515	13.94	2	Far East Broadc. Co: 01.00–05.30 (Sun 08.00), 08.30–09.45

** = 7.5/10/50kW.

Medium Waves: ° = also on Short Wave.

	Call	kHz	kW		Call	kHz	kW
11)	DZXR	530	5	18)	DZHB	590	1
12)	DZYZ	540	1/0.5	19)	DZAX	600	1°
13)	DZWT	540	10	20)	DZVV	600	1
3)	DZCA	550	1	21)	DYRC	600	5
3)	DYCI	550	1	22)	DXMB	610	1
3)	DYCH	550	1	16)	DZAQ	620	50
14)	DZCI	560	1	19)	DZRL	630	10
15)	DZAA	560	1	23)	DYAG	630	5
16)	DYCB	570	10	18)	DXBC	630	1
17)	DZBB	580	10	16)	DXAW	640	10
18)	DXDC	590	1				

	Call	kHz	m
7)	DZRH	*650	10
16)	DXLC	660	1
24)	DZXI	660	1
22)	DYBC	660	1
11)	DZYB	670	1
12)	DXRD	670	2.5
25)	DYPL	670	1
4)	DZAS	*680	10
26)	DXJM	680	1
16)	DZBL	690	1
19)	DXDX	690	1
19)	DZTG	690	1
16)	DXCL	700	1
20)	DZLU	700	1
2)	DZFM	*710	10
20)	DXRA	710	10/5
18)	DXIC	720	1
27)	DZGB	720	1
28)	DYBR	730	1
5)	DXND	*730	1
9)	DXMC	*740	5
29)	DZBM	740	1
30)	DYWC	740	5/1
31)	DZCV	740	1
31)	DXGS	750	1
16)	DZRB	750	5
7)	DZMB	*760	1
12)	DXRI	760	1
32)	DZJC	770	1
9)	DXMZ	770	1
33)	DYPR	770	1
34)	DYRR	770	1
18)	DXCC	780	10
35)	DXDO	780	2.5
36)	DZRJ	780	1
7)	DYVL	790	1
37)	DZAB	790	1
38)	DZXE	790	1
39)	DZPI	800	1
20)	DYFM	800	5
40)	DZMU	810	1
12)	DZSP	810	1
9)	DXMI	810	1
9)	DXMM	810	1
39)	DYBU	820	1
24)	DZQL	830	5
12)	DXRB	830	1
1)	DYSR	*840	10
9)	DXMY	850	1
31)	DZGE	850	5
10)	DZRV	860	50
22)	DYOG	860	1
25)	DYXL	870	1
18)	DXVM	870	1
41)	DZBT	870	1
5)	DXMS	880	5
12)	DZTC	880	1
31)	DZRC	890	5/1
17)	DZXX	890	1
9)	DXUM	900	1
15)	DZAD	900	1
18)	DYHP	900	1
25)	DXLI	910	1
22)	DYHF	910	1
9)	DXMX	910	1
2)	DZRP	*920	50
41)	DXMT	930	10
41)	DZTD	940	5
1)	DYCR	*940	1
35)	DZQR	940	1
12)	DXRO	940	1
42)	DZVS	940	1
9)	DXRZ	950	1
9)	DXMO	950	1
25)	DZXL	960	50
9)	DXMN	970	1
43)	DYMB	970	1
11)	DZXM	980	0.5
12)	DXYZ	980	1
23)	DXGE	980	1
19)	DZAH	990	0.5
44)	DXWB	990	0.5
33)	DYRP	990	1
16)	DZMM	1000	10
18)	DXHP	1000	1
25)	DXJW	1010	5
33)	DYRO	1010	1
12)	DZRD	1010	5
34)	DZSJ	1010	1
45)	DZFA	1010	1
16)	DZQM	1020	1
46)	DYSS	1020	1
20)	DZWX	1020	1

	Call	kHz	m
4)	DZFE	*1030	1
7)	DYMS	1040	0.5
16)	DZRI	1040	5
20)	DZDR	1040	5
22)	DXLL	1050	2.5
47)	DYSA	1050	1
48)	DZEC	1050	5
4)	DXKI	1060	1
20)	DZVR	1060	5
41)	DZWS	1070	10
22)	DYWX	1070	1
23)	DXVA	1080	1
49)	DYMX	1080	1
9)	DXCM	1090	1
20)	DYVP	1090	1
41)	DZMT	1100	10
43)	DXRC	1110	1
50)	DYHR	1110	1
33)	DYRM	1120	1
31)	DZXT	1120	1
22)	DYOR	1130	1
18)	DZHP	1130	10
51)	DYRD	1150	1
9)	DXMW	1160	1
25)	DZMY	1160	5
9)	DXMV	*1160	1
20)	DZWN	1170	5
22)	DYLL	1170	1
35)	DZWJ	1170	5
52)	DYRF	1180	5
2)	DZKM	1190	5
33)	DYRH	1200	1
2)	DZMQ	1210	1
23)	DZNL	1210	5
53)	DZLB	1210	0.25
54)	DXSY	1210	1
55)	DYRV	1220	1
2)	DXSM	1220	1
37)	DZSA	1230	1
22)	DZAL	1230	1
22)	DXCB	1230	1
55a)	DZLT	1240	5
20)	DZTR	1250	5
56)	DYVM	1260	5
20)	DZYE	1270	5
23)	DZBW	1270	0.5
22)	DYRI	1280	5
19)	DZBJ	1280	10
31)	DZFB	1290	1
11)	DZYQ	1290	1
2)	DXSO	1300	1
17)	DZUW	1310	1
22)	DYML	1310	1
22)	DYRX	1320	1
57)	DZYV	1320	1
58)	DYVN	1330	1
50)	DZYG	1330	1
16)	DZBC	1340	5
11)	DZYR	1350	1
11)	DZYS	1350	2/1
2)	DXRP	1350	1
11)	DZXQ	1360	0.5
22)	DYRL	1360	5
49)	DZRA	1360	1
19)	DZBS	1370	0.5
60)	DYVR	1370	2.5
41)	DZTM	1380	10
61)	DXRM	1390	1
11)	DZYA	1400	0.5
8)	DZUP	*1410	1
2)	DYMR	1410	5
33)	DYRS	1420	1
35)	DZOR	1420	1
29)	DZLM	1430	1
17)	DYOO	1440	1
62)	DZBU	1460	10
23)	DYWN	1470	1
37)	DZJS	1480	1/0.5
22)	DYKR	1480	1
22)	DZGK	1480	1
31)	DOXC	1490	1
63)	DYAV	1490	0.5
2)	DZCP	1500	2.5
2)	DZEQ	1510	1
64)	DZEM	1520	5
23)	DZME	1540	5
65)	DYLA	1550	10
66)	DZAT	1560	0.5
35)	DZSE	1580	5
67)	DZFU	1580	0.5
68)	DYDR	1590	1
1)	DZCH	1600	10

Short Waves:

1) **National Council of Churches Broadc. Network.**

Addr: DYSR, Dumaguete City; DZCH (Head Office of Network P.O. Box 4148, Manila. **L.P:** Dir. Gen: J. William Matthews (Exc. Dir. Mass Media Commission). St. Mgr. & Dir. Tec: (DYSR/DYCR): B. Magdamo. St. Mgr. (DZCH): J. Pia Jr.

D.Prgr: On DYSR/DYH4: 21.00-14.00. **N. in English:** 22.45, 04.15, 12.00. **N. in Visayan:** 22.00, 10.00; On DZCH: 21.00-14.00 — **Ann:** "This is the N.C.C.B.N., The National Council of Churches Broadc. Network. You are listening to DYSR & DYH4 in Dumaguete (or DZCH & DZCH-FM) in Manila". **V.** by letter & prgr. schedule. Recordings accepted.

1) **South East Asia Radio Voice (SEARV) (Rlg.)**

Addr: P.O. Box 4148, Manila. **Cable:** Interchurch. **Studios:** 10 Salemba, Djakarta IV/3, Indonesia; 82nd Street, Mandalay, Burma; 14 Pramuan, Bangkok, Thailand; 191 Prince Edward Road, Kowloon, Hongkong; 116 Sec 1, Tachung-Kong Rd, Taichung, Taiwan. **L.P:** Exec. Dir: C. Bernardez. Dir's: S. Lader (Burma), Aswandi (Indonesia), Poopradandh (Thailand), T. W. Lung (Hongkong).

Stations: see above.

D.Prgr's: Testing 11.00-12.00 in Thai, 12.00-12.30 in Burmese, 12.30-16.30 to Malaysia, India, China. **V** by QSL-card. Reports to be sent to C. Bernardez, P.O. Box 4148, Manila. Recordings accepted. **Fi:** Operations are underwritten by Protestant Churches in Europe and America and by special gifts from the churches of the National Councils in the participating Asian Countries.

2) GSIS Bldg, Manila D-406. **Te:** 3-24-15. **Cable:** Philcast. **L.P:** Gen Mgr: F. Trinidad. Asst. Gen. Mgr: F. Dy. Sr. Exec. Asst: P. Prado. Prod. Mgr: R. Pedroche. Dir. Engineering: L. Quintos. **D.Prgr:** 21.00-15.00. N. 21.00(Filipino), 23.30(E), 00.00(Filipino), 00.30(E), 02.30(E), 03.00(Chinese), 04.00(E), 04.05(Filipino), 05.00(E), 08.05(Filipino), 09.00(E), 10.05(Filipino), 10.30(E), 15.00.

Relay St's: 1210kHz Dagupan City; 1220kHz Jolo; 1300kHz Marawi City; 1350kHz Davao City; 1410kHz Cebu City; 1510kHz Baguio City. **Ann:** "This is PBS, the Philippine Broadc. Sce. Netw. (followed by call-letters and freq. in kHz). **V.** by letter. Rp. preferred. Recordings appreciated. **Pub:** Prgr. schedule free.

3) Independence Grandstand, Luneta, Manila. **Ann:** "You are listening to st. DZCA owned and operated by the National Civil Defense Adm. of the Philippines". **V.** by letter. Re. in E.

4) **FAR EAST BROADCASTING COMPANY.**

Addr: Box 2041, Manila. **Te:** 233357. **Cable:** Febcom — **L.P:** Dir: R. A. Reynolds. Dir. Overseas Prgr's: R. H. Boettcher.

PHILIPPINE SERVICE: 20.55-15.00 on 680/3345/6030kHz; On 3345kHz 20.30-24.00, 09.00-14.30.

21.00 Philippine dialects, 21.45 **English**, 22.30 Tagalog, 23.00 **English**, 01.15 Tagalog, 02.40 **English**, 04.30 Chinese, 05.30 **English**, 09.00 Tagalog & Philippines dialect, 11.00-15.00 **English**.

Manila's Fine Music Station: 21.55-15.00 on 1030kHz (all English).

Shortwave: 22.00-23.45, 08.30-09.45 on 17810kHz; 13.30-14.30 on 680kHz.

Southern Philippine St. DXKI, Marbel, Cotabato: 21.30-23.30 **English**, 08.00-09.00 Phil. dialects, 09.00-10.30 Tagalog, 10.30-11.30 Phil. dialects, 11.30-13.00 **English**.

OVERSEAS SERVICE:

G.C: of the sw-tr's: Valenzuela: 120.58E/14.42N. Bocaue 120.55E/14.48N.

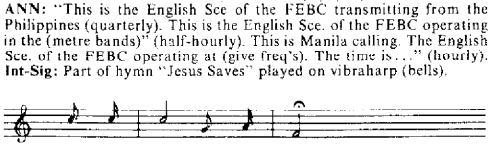
Abbreviations: I = China; II = Malaysia/Indonesia; III = Australia/NZ/New Guinea; IV = Japan; V = Thailand/Laos/Cambodia/Vietnam; VI = India/Pakistan/Ceylon; VII = USSR; VIII = Near East/No. Africa — a) English; b) Mandarin/Amoy; c) Indonesian; d) Thai/Lao/Burmese; e) Sinhalese; f) Tamil/Telugu/Malayalam/Marathi/Kannada; g) Gujerati/Bengali/Malayalam/Hindi/Tibetan/Nepali; h) Mandarin; i) Russian; j) Amoy/Cantonese; k) Malay; m) Lao/French(Cambodian; n) Mandarin/Cantonese; o) Japanese; p) Thai; q) French; r) Russian; s) Vietnamese.

H. of tr.	Areas	kHz/Beams	L
21.30-22.00	IV	11920(30°/210°)	o
21.45-22.45	I	6120/7225/9715(330°)	h
22.45-23.25	I	7225/9715(330°), 11855(330°/150°)	b
22.00-23.30	II	11920(210°/30°)	c+k
22.00-23.45	III	17810(150°)	English
22.30-23.45	V	9505(280°)	s+m
23.30-24.00	II/V	15300(240°), 15385(280°)	English
00.00-00.30	V	15385(280°)	English
00.30-01.00	VI	15385(280°)	e
00.00-01.00	II	15300(240°), 17810(210°/30°)	h
23.45-01.00	V	15440(280°)	d
01.00-03.00	VI	15385(280°)	g
01.00-03.00	II/III	15300(240°), 21515(150°)	English
	V/VI	17810(280°)	English
03.00-05.30	III	21515(150°)	English
	V/VI	15440/17810(280°)	English
03.00-07.00*	II	15300(240°)	English
05.30-07.00*	V/VI	15440/17810(280°), 21515(150°)	English
08.30-09.00	II/III	15300(240°), 21515(150°) 17810(210°/30°)	English
	V	15440(280°)	English
09.00-10.00	III	11890(150°)	English
09.00-09.45	II	17810(210°/30°), 21515(150°)	English
09.00-11.30	II/V	15300(150°), 15440(280°)	h+j
10.00-10.30	III	11890(150°/330°)	r
10.00-11.30	IV	11920(30°/210°)	o
10.30-11.15	I/III	11855(330°/150°)	n
11.15-12.45	V	11855(280°)	d
11.30-12.30	II/VI	11920(210°/30°), 15300(240°)	English
11.45-13.30	V	9715(280°)	s+m
12.30-13.45	II	11920(210°/30°), 15300(240°)	e
12.45-14.00	VI	15440(280°)	English
13.30-13.45	I	6030, 7225/9715(330°)	h
13.45-15.15	I	6030, 7225/9715(330°)	Cantonese
	II	11920(210°/30°), 15300(240°)	Cantonese

H. of tr.	Areas	kHz/Beams	L
15.15–16.15	I	6030, 7225/9715(330°)	
		11920(330°/50°)	n
	II	15300(240°)	n
14.00–15.30	VI	15440(280°)	f
15.30–16.30	V/VI	15440(280°)	**English**
16.30–17.30	VII	7225/9715(330°),	
		11855(330°/150°)	r
17.35–18.00	VIII	15440(280°)	Arabic
18.00–18.15*	VIII	15440(280°)	Arabic

* = Sun only.

Beaming Code: North/South 30/210°; South East 150°; South West 240°; West 280°; North West 330°.
Short Wave Mbg: Mon 09.15 on 11890kHz (III), Mon 12.00 on 11920/15300kHz (II/IV), Wed 13.30 on 15440kHz (V/VI)—**Listeners Corner:** Mon-Fri 23.45 24.00 on 15300/15385kHz (II/V/VI).
ANN: "This is the English Sce of the FEBC transmitting from the Philippines (quarterly). This is the English Sce. of the FEBC operating in the (metre bands)" (half-hourly). This is Manila calling. The English Sce. of the FEBC operating at (give freq's). The time is..." (hourly).
Int-Sig: Part of hymn "Jesus Saves" played on vibraharp (bells).



V. by QSL-card and letter. Rp preferred (3 IRC's for Air-mail).
Pub: Prgr. schedule free on request. "Signal" (every two months)—**Fi:** FEBC is a non profit, non-comm, missionary organisation being sustained by free-will gifts and offerings from interested friends.

5) Cotabato City, Cotabato.
6) National Teachers College, P.O. Box 3032, Manila. **Ann:** E: "This is the Voice of Education". **V.** by letter.
7) **MANILA BROADCASTING COMPANY—Addr:** Radio Center, 964 Taft Avenue, Manila. **Te:** 36451. **Cable:** "Manbroadco". **L.P:** Gen Mgr: Ira Davis (DZRH/DZMB Rizal, DYVL Leyte, DYMS Palo, Leyte). **V.** all st's verify by QSL-card. Rp.
8) Dept. of Speech and Drama, Univ. of the Philippines, Diliman, Quezon City. **Ann:** "You are listening to DZUP, the R. st. of the State Univ. broadc. from Diliman, Quezon City, 1410kHz on your radio dial, 7.16MHz in the sw-band". **Int-Sig:** electric chimes E-C (mido). **V.** by QSL-card or letter.
9) 3rd Floor, DBP Bldg, C.M. Recto St, Davao City. **Te:** 252. **L.P:** Dir Gen: G. E. Torres. **INT-SIG:** DXMC: A gong (musical instrument used by Moros, natives of Mindanao). **V.** by letter.
10) Philippine R. Educational & Information Center, P.O. Box 132, Manila. **Te:** 4–18 67. **L.P:** Pres: H. B. Reves. Gen. Mgr: Rev. R. J. Guillermo. Dir. Prgr: C. N. Gosioco, S. J. Dir. Tec: P. S. Comba. **D.Prgr:** 21.00–04.00, 09.00–15.00. **N:** 10.15, 12.00. **Ann:** "DZRV Calling; This is R. Veritas broadc. from Manila on 860kHz." **V.** by QSL-card and letter. Recordings accepted. **PUB:** "Truth in Asia" (quarterly). **F.PL:** Foreign Sce. from 2×100kW sw-tr's to start early 1969 for South & South East Asia.
Medium Waves: D. Prgr: 21.00-16.00 exc. where indicated.
11) **Mabuhay Broadc. System,** 1000 C. M. Recto Ave, Manila. **L.P:** Gen. Mgr: Q. A. de Guzman. Dir. Tec: J. Carpio. **D.Prgr:** 22.00-15.00 (in English, Tagalog, Ilocano).
12) **National Broadc. Corpo,** 306 Sampaguita Bldg, Quezon City. **D. Prgr:** 21.00-15.00.
13) **Mt. Province Broadc. St,** Mt. Province.
14) **P. B. Araulle,** Cabanatuan City (belongs to 12).
15) **Pacific Broadc. System,** Legaspi City (DZAD = Dagupan City).
16) **Bolinao Electronics Corpo,** CBN Bldg, Aduana St, Manila.
17) **Republic Broadc. System,** Diliman, Quezon City. **D. Prgr:** 20.00-18.00
18) **R. Mindanao Netw. Inc,** Philippine Herald Bldg, Manila. **L.P:** Gen. Mgr: H. R. Canoy. **D. Prgr:** DZHP 24h; other st's 21.00-16.00 (in English, Spanish, Tagalog, Visayan). **V.** by letter. Recordings accepted (DXDC Davao, DZBH Baguio, DXBC Butuan, DXIC Iligan, DXCC/DXVM/DXHP Cagayan de Oro, DYHP Cebu, DZHP "The Sound of the City", Manila).
19) **R. Philippines Netw. Inc,** 1195 Florida St, Manila.
20) **Northern Broadc. Netw. Inc,** 105 N. Domingo St, San Juan, Rizal.
21) **Cebu Broadc. Co,** Lim Bon Fing Bldg, Cebu City. **D.Prgr:** 21.00-16.00.
22) **Visayan Broadc. System,** 9 Manikling St, Quezon City.
23) **Liberty Broadc. Netw. Inc,** Mocerse Bldg, Manila.
24) **Monserrat Broadc. System,** CBN Bldg, Intramuros, Manila. **D.Prgr:** 21.00-15.00.
25) **Chronicle Broadc. Netw,** CBN Bldg, Manila. **D.Prgr:** 21.00-15.00.
26) **Pacific Broadc. Netw. Inc,** Butuan City. **L.P:** Gen. Mgr: D. M. Villalba Jr. Dir. Tec: J. C. Decamotan. **D.Prgr:** 21.00-15.00. **N:** 22.45, 04.45. **V.** by letter. Recordings accepted.
27) **Legaspi Broadc. System,** Legaspi City.
28) **East Visayan Network,** Tacloban City.
29) **Mareco, Inc,** 131 Del Monte Ave, Quezon City.
30) **Franciscan Broadc. Corpo,** Negros Oriental.
31) **Filipinas Broadc. Netw. Inc,** 5th Floor, Oledan Bldg, Makati, Rizal.
32) **R. Station DZJC,** Laog City.
33) **Allied Broadc. Center,** 2682 Capinpin St, Makati, Rizal. **L.P:** Pres: E. V. Rosales. Dir. Tec: R. Jamantoc. **D.Prgr:** 21.00-16.00. St's: Palawan (770kHz), Iloilo City (990), Roxas City (1010), Dumaguete City (1120), Bacalod City (1200), San Carlos (1420kHz).
34) **R. Henry Canoy,** Philippine Herald Bldg, Manila.
35) **Freedom Broadc. System,** 364 Cuenca St, Makati, Rizal.
36) **Rajah Broadc. Network,** Quezon City.
37) **Delta Broadc. System,** 4th Floor, Rep. Supermarket Bldg, F. Torres St, Manila. **L.P:** Gen. Mgr: R. M. Santos. Dir. Tec: H. Baldo. **D.Prgr:** 21.00-16.00 (in English, Chinese, Philippino, Hindi, Spanish). **V.** by letter. **F.Pl:** Increase power to 5 or 10kW: A netw. of 24 st's.
38) **Pacific Broadc. System, Inc,** 964 Taft Ave, Manila.
39) **Philippine Broadc. Corpo,** Cebu City. (DZPI = Rizal).
40) **Manila Times R. St,** Ilocus Sur.
41) **Associated Broadc. Corpo,** P.O. Box 2789, Manila. **Cable:** ABC Mantime. **Te:** 37301. **L.P:** Gen. Mgr: M. C. Roces. Dir. Tec: (Chief Eng.) R. Raymundo. Traffic Mgr: J. C. Bunao. **D.Prgr:** DZMT 24h, other st's 22.00-16.00 (DZWS/DZMT/DZTM Manila, DXMT Davao City; DZDT Dagupan City). DZMT + DZWS in English, other st's in English & Filipino. **V.** by QSL-card and letter. Recordings accepted.
42) **Pan Oriental Broadcasters,** Sorgoson.
43) **Metropolitan Broadc. Co,** Cebu City.
44) **R. St. DXWB,** Gingoog City.
45) **Bayanihan Broadc. Center,** Sorgoson.
46) **R. St. DYSS,** Cebu City.
47) **University of San Augustin,** Iloilo City. **L.P:** St. Mgr: E. P. Campos. Dir. Tec: R. D. Garcia. **D. Prgr. in English, Spanish, Filipino, Hiligaynon, Chinese;** 22.00-14.00. **Int-Sig:** Spanish Dance by E. Granados. **V.** by letter. Recordings accepted.
48) **Eagle Broadc. Corpo,** Rizal.
49) **R. St. DYMX,** 350 Kinasangan St, Cebu City.
50) **Vanguard R. Netw. Inc,** Calbayog City.
51) **R. St. DYRD,** Tagbilaran City.
52) **R. St. DYRF,** Cebu City.
53) **University of the Philippines,** Quezon City.
54) **R. St. DXSY,** Ozamiz City.
55) **R. Communications of the Philippines Inc,** Plaza Sta. Cruz, Manila. **D.Prgr. in English, Cebuano, Visayan:** 21.30-14.00. **V.** by letter. Recordings accepted. Rp.
55a) **Luzonian Colleges,** Luzena City.
56) **Central Philippine Broadc. Co,** Cebu City.
57) **R. St. DZYV,** Quezon Province.
58) **R. St. DYVN,** Leyte.
59) **Voice of Cataduances,** Virac, Cataduances. **L.P:** St. Mgr: M. P. Ogayon. Dir. Tec: D. G. Cruz Jr. **D.Prgr. in Bicol, Tagalog, English:** 21.00-16.00. **V.** by letter. Recordings accepted.
60) **Panay Broadc. Corpo,** Roxas City. **L.P:** St. Mgr: T. A. Yotoko. **D.Prgr. in English & Ilongo:** 21.00-15.00. **V.** by QSL-card. Recordings accepted. Rp. preferred.
61) **R. St. DXRM,** Marawi City.
62) **Bulletin Radio Network,** Bulacan.
63) **Abellana National School,** Cebu City. **L.P:** St. Mgr: P. Jayme. **D.Prgr. in English, Filipino:** 01.00-03.00 & 06.00-08.00. **V.** by letter. Recordings accepted. **F.Pl:** Increase power and to operate on 1490kHz.
64) **R. St. DZEM,** Rizal.
65) **R. St. DYLA,** Cebu City.
66) **Philippine College of Arts,** Manila.
67) **Feati University,** Helios St, Sta. Cruz, Manila. **Te:** 45951. **L.P:** St. Mgr: Mrs. M. L. A. Santiago. Dir. Tec: F. C. Maliwanag. **D.Prgr:** 01.00-14.30 (in Tagalog & English). **V.** by letter. Recordings accepted. Rp.
68) **Central Broadc. Inc,** Colon St, Cebu City.

VOICE OF AMERICA RADIO STATION, PHILIPPINES.
ADDR: Voice of America, Washington, D.C.20547, USA.
STATIONS: Medium Waves: Malolos A: 920kHz 326m 50kW: 21.00–16.30—Poro A: 1140kHz 263m 1000kW: 11.00–24.00.
Short Wave: Malolos 50kW: 21.00–17.00.

kHz	m	kHz	m	kHz	m
6170	48.62	11965	25.07	17775	16.90
9580	31.32	15175	19.77		

Poro: 35/50/100kW: 22.00–02.45, 05.00–16.30.

kHz	m	kHz	m	kHz	m	kHz	m
7275	41.24	11805	25.41	15290	19.62	17825	16.83
9530	31.48	11865	25.28	15345	19.55	17830	16.83
9555	31.40	15155	19.80	15365	19.53	21570	13.91
11730	25.58	15165	19.78	15410	19.47	21630	13.87
11775	25.48	15210	19.72	17735	16.92		
11790	25.45	15250	19.67	17750	16.90		

Tinang: 50kW: 07.00–17.30.

kHz	m	kHz	m	kHz	m
9615	31.20	11930	25.15	17765	16.89
11715	25.61	15155	19.80		

G.C: Poro 120.17E/16.37N—Malolos 120.48E/14.52N—Tinang: 20.37 E/15.21N.
D.PRGR: Medium Wave; 1140kHz: 11.00–16.30 Vietnamese; 920kHz: 21.00–15.00 PBS, 15.00–16.30 VOA English—**Short Wave:** See USA.
ANN: "This is the Voice of America" is given in the language of the program and in English—**INT-SIG:** Theme of "Columbia, the Gem of the Ocean"—**V.** by QSL-card.

ARMED FORCES RADIO & TV SCE: see USA.

QATAR

L.T: GMT+4 h—**Pr.L:** Arabic.
RADIO QATAR (Gov.)
ADDR: P.O. Box 1414, Doha.
STATION: 9570kHz 31.35m 100kW.
HOME SCE. in Arabic: 03.30-05.00 (Fri 07.00), 14.00-17.30 — **ANN:** "Idha 'at el Quathar min Doha". **V.** by letter.

RYUKYU ISLANDS

L.T: GMT+9 h—**Pr.L:** Japanese, Okinawan, English.

RYUKYU BROADCASTING CORPORATION (Comm.)

ADDR: CPO Box 4, Naha, Okinawa. **Te:** 8-4161.

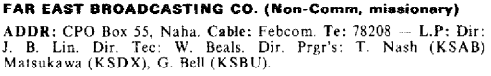
HOME SCE: KSAR 740kHz 405.4m 5kW: 20.00-16.00 Japanese — KSBK 890kHz 340.9m 3kW: 20.00-16.00 English — **N:** Every h on the h—**ANN:** KSAR: "RBC" or "Ryukyu hoso desu" every 15 or 30 min's. KSBK: "Radio 890"—**V.** by QSL-card.

FAR EAST BROADCASTING CO. (Non-Comm, missionary)

ADDR: CPO Box 55, Naha. **Cable:** Febcom. **Te:** 78208 — **L.P:** Dir: J. B. Lin. Dir. Tec: W. Beals. Dir. Prgr's: T. Nash (KSAB) Matsukawa (KSDX), G. Bell (KSBU).

STATIONS: KSAB 1020kHz 1kW — KSDX 1250kHz 5kW — KSBU 1360kHz 100kW — **HOME SCE:** KSAB (English): 21.00-14.00. **N,Wrp:** 21.55, 22.55, 23.55, 00.55, 02.45, 08.45, 11.45 — KSDX (Japanese): 22.00-14.00. **N:** 22.30, 23.30, 02.30, 03.30, 09.30, 12.30 — KSBU (Chinese): 10.30-15.30 (beamed towards Shanghai) — **ANN:** Call letters every 15 or 30 min. — **V.** by QSL-card. Rp. preferred.

INT-SIG: Vibraphone.



PUB: Prgr. schedule free — **FI:** By freewill gifts.

RADIO OKINAWA CO. LTD. (Comm.)

ADDR: CPO 405, Naha, Okinawa. **Te:** 8-5128.

STATION: KSDT 780kHz 384.6m 5kW—**HOME SCE. in Japanese:** 20.00-15.00—**ANN:** "KSD ROK" or "R. Okinawa des" at 15 or 30 min. intervals—**INT-SIG:** Chimes or audio tones—**V.** by QSL-card.

VOICE OF AMERICA RADIO STATION IN OKINAWA

ADDR: Voice of America, Washington, D.C.20547, USA.

STATIONS: Medium Wave: Okinawa 1178kHz 1000kW: 11.00–17.00. **Short Waves:** Okinawa 35/100kW: 21.30–02.00, 09.00–17.00.

kHz	m	kHz	m	kHz	m	kHz	m
6010	49.92	7165	41.87	11965	25.07	15395	19.49
6075	49.38	7235	41.47	15365	19.52	21490	13.96
7160	41.90	11830	25.36	15375	19.51		

G.C: 128.09E/26.44N.

D.PRGR: Medium Wave: 11.00–13.30 Chinese, 13.30–14.30 Korean, 14.30–16.00 Chinese—**Short Wave:** See USA.

ANN: "This is the Voice of America" is given in the language of the program and in English—**INT-SIG:** Theme of "Columbia, the Gem of the Ocean"—**V.** by QSL-card.

VOICE OF THE UNITED NATIONS COMMAND (VUNC)

ADDR: Headquarters: 7th Psyop Gp, APO 96248. Studios: Machinato, Okinawa.

STATIONS: Deragawa (Okinawa) 9840kHz 30.49m 20kW—14460 kHz 20.75m 20kW—**D.Prgr's in Korean** (Point-to-Point relay): 06.00–21.00—**V.** by QSL-card—**PUB:** Prgr. schedule yearly.

SABAH (Fed. of Malaysia)

L.T: GMT + 8 h — **Pr.L:** English, Malay, Chinese, Kadazan, Murut, Bajau, Indonesian.

RADIO MALAYSIA SABAH (Gov.)

ADDR: Dept. of Radio, Kota Kinabalu. **Te:** 2711. **Cable:** Broadcasts **L.P:** Contr. of Radio: S. H. Amin. Chief Eng: M. K. O. Chen.

STATIONS (G.C: 116.03E/05.56N): 1) Tenom. 2) Tawau. Others Kota Kinabalu.

	kHz	m	kW	kHz	m	kW
1)	565	531.0	10	930	322.6	5
2)	750	400.0	5	4970	60.36	5

FM: 97.5MHz 100kW.

HOME SCE: On 930/4970kHz + FM (Kota Kinabalu): W 22.30-00.30, 04.00-06.15, 07.45-16.00 (Sat 03.00-16.00); Sun 22.30-07.15, 07.30-16.00.

English: 23.30-24.00 (W), 01.30-04.00 (Sat), 05.00-05.30 (Sat 06.30), 11.00-11.45, 13.30-15.00 — **Malay:** 00.00-00.30 (W), 00.30-01.30 (Sun), 05.30-06.15 (Mon-Fri), 05.30-07.15 (Sun), 06.30-07.45 (Sat), 12.00-13.30, 15.00-16.00 — **Chinese:** 23.00-23.30 (Sun 23.30-00.30), 04.30-05.00, 08.00-09.30 — **Kadazan:** 22.30-23.00 (Sun 23.30), 04.00-04.30, 09.30-09.45, 10.00-11.00 — **Indonesian:** 07.45 (Sun 07.30)-08.00 — **Murut:** 09.45-10.00 — **Bajau:** 11.45-12.00.

Reg. St's: Tawau 750kHz: 04.00-06.15 (Sun 07.15, Sat 07.45), 07.45-08.00 (rel. Kota Kinabalu); 08.00-09.00 (tape from Kuala Lumpur), 09.00-11.00 (rel. Kuala Lumpur); 11.00-16.00 (rel. Kota Kinabalu). Tenom 565kHz: 08.30-09.00 (tape from Kota Kinabalu), 09.00-13.00 (rel. Kota Kinabalu).

ANN: "Ini-lah R. Malaysia, Sabah broadc. from Kota Kinabalu" —

INT-SIG: Opens with Sabah Anthem and closes with Nat. Anthem — **V.** by letter. Re. to Asst. Contr. of Prgr's.

SARAWAK (Federation of Malaysia)

L.T: GMT + 8 h — **Pr.L:** English, Malay, Chinese, Iban, Melanau, Bidayuh.

R. MALAYSIA SARAWAK (Gov.)

ADDR: Broadc. House, Kuching. **Te:** 22345. **Cable:** Broadcasts—**L.P:** Contr. of Radio: M. Salleh Askor, Chief Eng: Sun Tai Lum.

STATIONS (G.C: 110.20E/01.33N):

kHz	m	kW	kHz	m	kW	kHz	m	kW
730	410.9	20/10	4950	60.60	20/10	7270	41.27	20/10
850	352.9	20/10	5030	59.62	20/10	9535	31.46	20/10
950	315.8	20/10	7145	41.99	20.10	9565	31.37	20/10
4835	62.05	20/10	7160	41.90	20/10	9605	31.23	20/10

HOME SCE: Morning Sce: On 730/4950/7160kHz: 23.00–01.00 (English 23.00, Chinese 00.00)—On 850/4835/7145/9535kHz: 23.00–04.00 (Iban 23.00, Bidayuh 23.30, Malay 00.00).

Midday Sce: On 730/7160kHz: Chinese 04.00–05.00 (W)—**English:** 05.00–05.30 (Sat 06.30, Sun 07.30), 03.00–04.00 (Sun). On 850/7145kHz: Melanau 04.00–05.00 (Tues)—Malay 04.00–05.00 (Wed) (Fri 05.30, Sun 06.00)—Iban 03.00–04.00 (Sun), 04.00–05.00 (Mon. Thurs, Sat). On 950/7270kHz: Bidayuh 04.00-05.00 (Sun).

Evening Sce: On 730/4950/7160kHz: Chinese 09.00 (Sun 08.00)-11.00, 12.30-14.00. **English:** 11.00-12.30, 14.00-16.00 — On 850/4835/7145 kHz: Malay 08.30-10.30, 12.30-14.00, 15.00-16.00, Iban 10.30-12.30, 14.00-15.00 — On 950/5030kHz: Bidayuh 11.00-14.00.

ANN: E: "This is R. Malaysia Sarawak", Malay: "Ini-lah R. Malaysia Sarawak", Iban: "Tu R. Malaysia Sarawak", Chinese: "Cher Sher Sarawak Malaysia Kwang Po Tien Thai", Bidayuh: "Ati Inuh R. Malaysia Sarawak"—**INT-SIG:** A musical phrase played on a native instrument, the Sapé, a musical phrase alternating between A and F—

V. by QSL-card—**ALF:** $10.00 (for main sets), $3.00 (for battery sets).

SAUDI ARABIA

L.T: GMT + 3 h — **Pr.L:** Arabic.

BROADCASTING SERVICE OF THE KINGDOM OF SAUDI ARABIA (Gov.)

ADDR: Ministry of Information, Airport Rd, Jeddah. **Cable:** Information Ministry. **Te:** 4171 **L.P:** Minister of Inf: H. E. Sheikh J. Hijailan. Dir. Gen. of Broadc: Sheikh A. F. Ghazawi. Dir. Gen. of Technical Sce's (Radio & TV): A. Sabri (Eng. Dept. Riyadh).

STATIONS: (G.C. Jeddah 39.12E/21.88N; Riyadh: 46.23E/24.30N).

* = Jeddah; ** = Riyadh. a) = Damman. E = English. A = Arabic.

kHz	m	kW	Sce.	kHz	m	kW	Sce.
**575	523	1	E	*723	415	50	E
**602	499	1200	A	a)890	337	100	A
*647	467	50	A				

Short Waves:

kHz	m	kW	kHz	m	kW
**6000	50.00	50	*11855	25.31	50
**7220	41.55	50	**11950	25.10	50
*9670	31.02	50	*15115	19.85	50
**9720	30.86	50	*15150	19.80	100

HOME SCE: General Arabic Prgr: Riyadh: Approx. 01.00–06.00 and 09.30-21.00 on 6000, 7220, 9720, 11950kHz — **N:** 02.30, 04.30, 05.30, 10.00, 13.15, 16.00, 18.00, 19.30 (times are approx). Jeddah: 01.30-06.30 and 19.30-21.00 on 9670kHz; 15.30-21.00 on 11855kHz; 09.30-15.30 on 15150kHz; **N:** 03.00, 05.55, 10.30, 13.50, 15.00, 16.00, 19.15, 21.00 (times are approx).

English Prgr: On 575/723kHz: 04.30–05.30, 11.00–12.00 (Fri and holidays 10.00–13.00), 17.00–20.00. **N:** 04.45, 11.30, 17.00, 19.45.

FOREIGN SCE: On 15115kHz: Indonesian 13.00 13.55 (N: 13.45), Urdu 14.00-14.55 (N: 14.45), Persian 15.00–15.55 (N: 15.45). **On 11855kHz** Swahili 16.00–16.55 (N: 16.45).

ANN: Arabic: Riyadh: "Al-ithaa' t'il Mamlakah t'il Arabiyah al Saudiyah min ar Riyadh wa Damman". Jeddah: "Al-ithaa' t'il Mamlakah t'il Arabiyah al Saudiyah min Jeddah". E: "This is the Broadc. Sce. of the Kingdom of Saudi Arabia".

INT-SIG: Call to prayer (Az'an) played on flute **V.** by letter and postcards. Recordings accepted — **F.PL:** Four 250kW mw-tr's at Riyadh: 1kW mw-tr's at Medina, Abha, Jizan, Tabuk, Hail & Buraidah

SINGAPORE

L.T: GMT+7½ h—**Pr.L:** Malay, Chinese, Tamil, English.

RADIO SINGAPORE (Gov.)

ADDR: Dept. of Broadc, Ministry of Culture, P.O. Box 1902, Singapore. **Te:** 50401. **Cable:** Broadcasts—**L.P:** Dir. of Broadc: H.T. Kwang. Deputy Dir: Mrs. Wong-Lee S. Tin. Chief Eng: G. Ang. Asst. Dir. (Prgr): C. V. Doral. Contr. (News): S. C. Lim. Comm. Mgr. H. F. Lee.

STATIONS (G.C: 103.46E/01.21N): * = Multilingual

kHz	m	kW	Prgr.	kHz	m	kW	Prgr.
630	476.2	10	E	6000	50.00	7.5	C
680	441.2	10	C	6155	48.74	50	M
790	441.2	100	*	7170	41.84	10	C/T
990	303.1	20	M	7250	41.38	7.5	M
1370	219.0	20	C/T	9635	31.14	50	C
5052	59.38	10	E	11940	25.12	50	E

FM: 92.4MHz 12kW(ERP)E—94.2MHz 12kW(ERP)M—95.8MHz 2kW(ERP)C — 96.8MHz 12kW(ERP)T.
E = English, C = Chinese, M = Malay, T = Tamil.
HOME SCE: English: On 630/5052/11940kHz + FM: D 22.30-16.30. **N:** 23.30, 00.30, 06.00, 11.30, 14.00, 15.30.
Malay: On 990/6155/7250kHz + FM: D 21.30–16.30. **N:** 23.45, 00.45, 05.30, 11.45, 13.45, 15.15.
Chinese: On 680/6000/9635kHz + FM: D 21.30–16.30. **N:** 23.45, 00.45, 05.00, 05.45, 11.45, 12.45, 13.45, 14.45.
Tamil: On 1370/7170kHz + FM: D 21.30–16.30. **N:** 23.45, 00.30, 06.00, 11.00, 13.00.
ANN: E: "This is R. Singapore". "Inilah R. Singapura"—**INT-SIG:** Chimes—**V.** by QSL-card. Rp. Recordings accepted **PUB:** "Radio Weekly" and "TV & Radio Magazine"—**FI:** by Gov. and license payments—**ALF:** $12.00.

BRITISH FORCES BROADC. SCE. SINGAPORE

is operated by the Ministry of Defence to provide a service of inf. and entertainment as well as a link with home for H.M. Forces in the Far East. It is non-comm. does not accept adv.
ADDR: B.F.B.S.(F.E.), HQ FARELF, c/o GPO Singapore. **Te:** 64711.
L.P: St. Contr: P. Buckle M.B.E. Sen. Eng: W. C. Robertson. Prgr. Organizer (English): J. W. Nation. Prgr. Organizer (Gurkha): Mrs. L. Devaraj.
STATIONS: *88.9MHz 5kW—**5010kHz 59.88m 10kW.
*for Singapore—**for Western Malaysia.
D.PRGR: 06.30-12.30 English (both freq's), 12.30–14.30. Gurkha Prgr. on 5010kHz only. **N.** (BBC relay): 08.00, 10.00 (English), 12.00 (Gurkha)—**V.** by QSL-card. RP.

REDIFFUSION SINGAPORE (Comm.)

ADDR: P.O. Box 608, Singapore. **Te:** 25011. **Cable:** Rediffuse. **L.P:** Man. Dir: G. H. Oldridge. Gen. Mgr: J. Snowden. Comm. Mgr: Mrs. J. Taylor — **D.PRGR'S:** 22.30-16.30; Two simultaneous prgr's. (English & Chinese) via wired network — **ALF** (Rediff. Rental): Singapore $5.00 (monthly).

SOUTHERN YEMEN (Peoples Republic of)

L.T: GMT+3 h—**Pr.L:** Arabic.

SOUTH YEMENI BROADCASTING SERVICE (Gov. Comm.)

ADDR: P.O. Box 1264, GPO, Aden. **Te:** 4875. **Cable:** "Al Irshad".
L.P: Dir. Tec: B. V. Hughes. Dir. Prgr: A. Saggaf.
STATIONS: (G.C: 44.54E/12.45N): 755kHz 397.4m 50kW—5060kHz 59.29m 7.5kWd.
HOME SCE. in Arabic: D.exc.Fri 03.30–06.00, 12.00–19.30; Fri 03.30–19.30—**ANN:** "Idha'at ue ganoub al Arabi men aden"—**V.** by QSL-card. Rp. preferred. Re. wanted from Arabic speaking countries only—**PUB:** Prgr. schedule free.

SYRIAN ARAB REP.

L.T: GMT+2 h (Su: GMT+3 h)—**Pr.L:** French, Arabic.

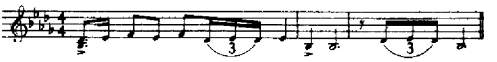
SYRIAN BROADCASTING AND TELEVISION (Gov.)

ADDR: Ommayad Square, Damascus. **L.P:** Dir. Gen. A. Haurani. Dir. Tec: Y. Zenati.

STATIONS:

kHz	m	kW	kHz	m	kW	kHz	m	kW
566	530	100	782	380	60	6165	48.66	20
602	498	2	863	348	10	7105	42.22	50
665	451	100	944	318	10	9585	31.30	10
719	417	2	957	314	60	15165	19.78	50
746	402	100	5960	50.34	7.5	15290	19.21	20

HOME SCE: Arabic: 04.00-23.30 on 566/665/746/782/957kHz.
Relayed on shortwaves: On 7105kHz: 04.00-23.30 (to Egypt (on test)); On 9585kHz: 04.00–22.00 to Iraq; On 15290kHz: 06.00–17.00 to No. Africa. At times st's divide and broadc. two separate prgr's:
A) **Arabic** on all freq's: 04.00-07.00, 08.00-15.30, 19.00-23.30
B) **Arabic** on 782/7105/9585/15290kHz: 07.00–08.00, 15.30–17.00, 18.00–19.00.
C) **Arabic** on 566/665/746/957kHz: 07.00–08.00, 15.30–19.00 (includes "Sowt el Fellaheen" (the Farmers Voice) at 16.45–18.00.
D) **Special Prgr. to Palestine:** 17.00–18.00 on 782/7105/9585kHz.
FOREIGN LANGUAGE SCE: 05.30–10.30, 15.00–23.00 on 719/863/955/5960kHz; also relayed 18.00–22.00 on 15165kHz to Europe; **English:** 08.00-09.30, 20.30-22.00. **French:** 06.30-08.00, 19.00-20.30. **German:** 18.00-18.30. **Hebrew:** 05.30-06.30, 16.00-18.00. **Russian:** 18.30–19.00. **Turkish:** 15.00–16.00. **Classical Music** (presented in Arabic): 09.30–10.30 and 22.00–23.00.
ARABIC, SPANISH, PORTUGUESE (mixed): 22.30-01.00 on 1565/15290kHz.
ANN: Arabic: A) "Eza'at el Jumhuriya il Arabiya es-Souriya mi Dimashk" (The Syrian Arab Republic's Broadc. Sce. from Damascus); C) "Eza'at Ma' E-Sha'b mi Dimashk" (The Peoples Prgr. from Damascus); D) "Eza'at Falastin mi Dimashk" (Palestine Broadc. from Damascus). E) "This is Damascus calling". F) "Ici Damas". Hebrew: "Kol Damasseh" — **INT-SIG:** Guitar — **V.** by QSL-card and letter.



THAILAND

L.T: GMT+7 h—**Pr.L:** Thai.

THE THAI NATIONAL BROADCASTING STATION (Gov.)

ADDR: Public Rel. Dept, Bangkok. **Te:** 4881. **Cable:** Radio Thailand.

Call	kHz	m	kW	Call	kHz	m	kW
HSK27	810	370.4	2.5	HSK28	856	350.5	10
HSK2	830	361.4	100	HSLK	927	323.6	10

Short Waves (G.C: 100.30E/13.47N):

Call	kHz	m	kW	Call	kHz	m	kW
HSKB	4830	62.10	5	–	7105	42.22	2.5
HSK5	6070	49.42	1	–	7305	41.07	2.5
HSK4	6160	48.70	1	HSK	11910	25.18	100

HOME SCE: Thai: 00.00–01.00, 12.00–14.45 on 830/4830/6070/6160/7305/11910kHz—**Other Languages:** French 05.30–06.00 on 1146/11910kHz.
OVERSEAS SCE: To No. America: 04.15–05.15 English on 910/7105/11910kHz. **To Korea** (in Thai): 09.30–09.45 on 810/7305/11910kHz. To Vietnam: 09.45–11.55 on 810/11910kHz (Vietnamese 09.45, Cambodian 10.00, English 10.25–11.30, Malay 11.30, Mandarin 11.45).
General Overseas Sce: 10.25–11.57 on 6160/11910kHz—**Rel. Home Sce:** 13.00–14.00 on 11910kHz.**N:** English 04.25, 10.30; Thai 09.32, 13.00; Vietnamese 09.45; Cambodian 10.00; Malay 11.30; Mandarin 11.45.
Regional Stations (in Thai only):

Call	kHz	m	kW	Location
HSKK	660	454.6	50	Khon Kaen
HSWK	725	413.8	55	Nakhon Ratchasima
–	910	329.7	1	Thon Buri
–	1130	265.5	10	Lampang
HSK24	1210	247.9	10	Surat Thani
HSKU	1345	223.0	10	Ubol

ANN: E: "This is the Overseas Broadc. St. of Thailand". F: "Ici R. Bangkok". Thai: "Thini Sattani Vitthayu Krachasiang hang Prathet Thai"—**V.** by letter. Rp. to Overseas Broadc. Division, Public Relations Dept. Bangkok.

MINISTRY OF EDUCATION (Gov.)

ADDR: Division of Educ. inf, Ministry of Education, Bangkok. **Te:** 46139.
STATIONS (G.C: 100.30E/13.47N): 2kW.
1180kHz 254.2m—3203kHz 91.69m—6062kHz 49.48m.
HOME SCE. in Thai, English: Mon-Fri 11.00–14.00, Sat/Sun 09.00–12.00 (in Thai and occ. English): Mon-Fri 01.30–07.00 School prgr's (in term time)—**N:** 11.35, 13.00—**ANN:** E: "This is the Educ. Broadc. St. of Thailand, broadc. on a frequency of . . . ",—**V.** by letter—**F.PL:** 10kW (on 1180kHz)—**PUB:** "Radio Times" in Thai.

THAI TELEVISION CO. LTD. (Comm.)

ADDR: Mansion B. Rajadamnern Ave. Bangkok. **Cable:** "Thaitv". **Te:** 27952 — **L.P:** Man. Dir: P. Hongsanand.
STATIONS (G.C: 100.30E/13.45N):
1500kHz 200.0m 10kW Prgr. I—6010kHz 49.92m 10kW Prgr. I.
1146kHz 261.8m 10kW Prgr. II—7105kHz 42.22m 1kW Prgr. II.
FM: 100.5MHz (Prgr. I), 94.5MHz (Prgr. II music), 96.5MHz (Prgr. III). 95.0MHz (Stereo-Multiplex) Prgr. IV).
HOME SCE. in Thai: Prgr. I: 23.00–16.00 on 1500/6010kHz. **N. in Thai:** 00.00, 00.45, 01.00, 02.30, 03.35, 04.20, 05.40, 07.45, 08.30, 09.30, 10.40, 11.30, 13.00, 13.40, 15.00.
2nd Prgr. (Music): On 1150/7105kHz—**ANN:** "This is the regular Sce. of TTV Radio, broadc. every day on the freq's of 1500kHz, 6010kHz and 100.5MHz. Transmission comes to you every day, from six o'clock to eleven o'clock"—**V.** by letter. Recordings accepted.

VOICE OF AMERICA IN THAILAND

ADDR: Voice of America, Washington, D.C.20547, USA.
Medium Wave (Ban-Phachi): 1580kHz 1000kW: 11.30–17.00.
D.PRGR: 11.30–12.30 Burmese, 12.30–13.00 Laotian, 13.30–14.00 Cambodian, 14.00–14.30 **English,** 14.30–15.30 Indonesian, 15.30–16.30 Vietnamese, 16.30–17.00 Bengali.

OTHER STATIONS:

	kHz	m	kW		kHz	m	kW
1)	555	540.5	10	17)	1060	283.0	1
2)	590	508.5	10	19)	1070	280.4	20
3)	590	508.5	10	20)	1090	275.2	10
4)	600	500.0	10	21)	1100	272.7	10
5)	600	500.0	10	22)	1200	250.0	10
6)	650	461.5	10	23)	1230	243.9	10
7)	662	453.2	10	24)	1276	235.1	10
8)	705	425.5	20	25)	1290	232.6	10
9)	715	419.6	10	26)	1290	232.6	10
10)	720	416.7	10	1)	1300	230.8	1
1)	785	382.2	10	11)	1320	227.3	1
11)	800	375.0	2/1	27)	1320	227.3	10
12)	843	355.9	50	28)	1333	225.1	10
1)	890	337.1	1	29)	1380	217.4	1
13)	950	315.8	1	21)	1470	204.1	20
14)	975	307.7	10	30)	1520	197.4	20
15)	975	307.7	10	31)	1530	196.1	10
16)	985	304.6	10	32)	1540	194.8	20
17)	990	303.0	0.5	1)	1550	193.5	20
17)	1010	297.0	1	33)	1570	191.1	10
18)	1043	287.6	10/20				

Thailand—Vietnam

Stations (Ann. consist of "Thini . . ." followed by given short name):
1) Armored Car School, Bangsue. (St's on 785/890kHz located at Bangkrabue). Short name: "Yan Kro".
2) Local Radio St, Chumphon. Short name: "Wor Por Thor 15".
3) Local Radio St, Khon Kaen. Short name: "Wor Por Thor 12".
4) AAADivision Radio Broadc. St, Bangkok. Short name: "Pol Por Thor Or".
5) Thai Army Anti Aircraft Artillery St, Bangsue. Short name: "Por Thor Or".
6) Thai Army Signal Corps. Inspector General's Depot, Bangkok. Short name: "Chor Sor 1". **D,Prgr.** 23.00 17.00.
7) Kasetsart University Broadc. St, Bangkhen. Short name: "Mor Kor 1".
8) Thai Army Defence Energy Dept, Bangkok. Short name: "Wor Por Thor 705".
9) Thai Army Broadc. St, Lop Bury.
10) Local Radio St, Hat Yai. Short name: "Wor Por Thor 5".
11) Royal Thai Air Force. Air Operations Command. St's: Khok Kratiam, Prachuap Khiri Khan and Nakhon Ratchasima (800), Sattahip (1320).
12) Radio 909, Sakon Nakhon.
13) Thai Police, Nakhon Ratchasima. Short name: "Sor Wor Por 2".
14) Local Radio St, Nakhon Ratchasima. Short name: "Wor Por Thor 3".
15) Local Radio St, Chiang Rai. Short name: "Wor Por Thor 10".
16) Local Radio St, Chian Mai. Short name: "Wor Por Thor 2".
17) St. of Thai Post & Telegraph St's: Ploen Chit (990), Laksi (1010, 1060).
18) Local Radio St, Bangkok. Short name: "Wor Por Thor 1".
19) Thai Army, 5th Infantry Division, Nakhon Si Thammarat.
20) Local Radio St, Nakhon Sawan. Short name: "Wor Por Thor 9".
21) Territorial Defence Dept. Broadc. St, Bangkok.
22) Royal Thai Air Force, Donmuang. Short name: "Sattani Witthayu sun nung".
23) Local Radio St, Udon Thani. Short name: "Wor Por Thor 7".
24) Thai Army Transportation Dept. Broadc. St, Bangkok. Short name: "Ko Sor Thor Bor".
25) Local Radio St, Ubon Ratchathani. Short name: "Wor Por Thor 6".
26) Local Radio St, Chon Buri. Short name: "Wor Por Thor 4".
27) Royal Thai Air Force, Tung Mahamek. Short name: "Tho Or 2".
28) St. of the Royal Household, Dusit Palace, Bangkok. Short name: "Or Sor".
29) Thai Army, 4th Infantry Division, Phitsanulok.
30) 2-0 Radio Broadc. St. Bangkok. Short name: "Song sun pieng lae kao". **D,Prgr in Thai and English:** 23.00-17.00.
31) Local Radio St, Uttaradit. Short name: "Wor Por Thor 14".
32) Cavalry Center, Sara Buri.
33) Thai Army, 1st Infantry Division, Bangkok.

TIMOR (Portuguese)

L.T: GMT + 8 h—**Pr.L:** Portuguese.

EMISSORA DE RADIODIFUSAO DE TIMOR PORT. (Gov.)

ADDR: Dili. **Te:** 295—**L.P:** St. Mgr: J. J. das Neves. Dir. Tec: F. Cosme.
STATION (G.C: 125.34E/08.33S): 3268kHz 91.78m 1kW.
HOME SCE. in Portuguese: D 04.30–06.00, 10.00 (Sun 00.30)–14.30 (Sat 15.00) exc. for times for Tetum (local language) and Chinese. **Tetum:** 10.15–10.25 (Thurs 10.45)—**Chinese:** Wed & Sat 12.30–13.00.
ANN: "Aqui Emissora de Radiodifusão de Timor Português, funcionando na banda dos 90 metros, freq. de 3268kHz".
INT-SIG: Gong—**V.** by QSL-card or letter. Recordings accepted—**FI:** By Gov. adv. and license payments—**ALF:** Esc. 100.

TRUCIAL STATES

L.T: GMT+4 h—**Pr.L:** English.

FORCES RADIO SHARJAH (Comm.)

ADDR: Officer in charge, Royal Air Force Sharjah, B.F.P.O.64, c/o GPO London. **Te:** Sharjah 8256—**L.P:** Dir. of Broadc: G.T. Sullivan.
STATION: 1480kHz 202.7m 0.25kW—**D.PRGR's in English:** Mon-Fri 02.00-02.45, 10.30-19.30; Sat 02.00-21.00; Sun 05.00-19.05. N (relay BBC/WS): 02.00, 09.00, 15.00(W), 18.00 (not Sat) — **ANN:** "You are tuned to Forces Radio Sharjah, broadc. on 1480kHz 202.7m in the medium wave band"—**V.** by letter.

TURKEY

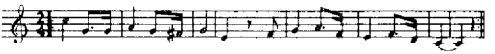
L.T: GMT+2 h—**Pr.L:** Turkish.

TURKISH RADIO-TELEVISION CORPORATION (Indep.)

ADDR: TRT Türkiye Radyo Televizyon Kurumu, Genel Müdürlügü, Ankara. **Cable:** TRT. **Te:** 172323. **Telex:** 7476—**L.P:** Dir. Gen: A. Öztrak. Asst. Dir. Gen (Adm): M. Tascioglu. Asst. Dir. Gen (Prgr.s): T. Özakman. Asst. Dir. Gen. (Techn. Sce's): D. Erden. Secr. Gen. a. i. K. Akçakoca. Legal Adviser: T. Gürzümar.

STATIONS:	kHz	m	kW	STATIONS:	kHz	m	kW
Ankara	182	1648	240	Ankara	1063	282.2	2
Erzurum	245	1224	100	Kars	1165	257.5	2
Cukurova	647	464	300	Van	1222	245.5	2
Mersin	647	464	300	Gaziantep	1210	247.9	2
Istanbul	701	428	150	Antalaya	1295	231.7	2
Izmir	926	324.0	100	Trabzon	1484	202.2	2
Istanbul II	963	311.5	2	Diyabakir	7650	39.22	1
Izmir	1033	290.4	2				

HOME SCE: R. Ankara: 182kHz: D 04.30-22.00. 1063kHz: 14.55 (Sat 09.55, Sun 08.00)-23.00 — **R. Istanbul:** 701kHz: W 04.25-22.00; Sun 04.25-22.00; 963kHz: 14.55 (Sat 09.55, Sun 08.00)-23.00—**R. Izmir** (on all freq's): W 04.30-13.00, 15.00-22.00 (Sat/Sun 04.30-22.00).
R. Trabzon/Antalaya/Gaziantep/Erzurum/Kars/Van: D 04.25-08.00, 09.55-12.30, 15.55-23.00.
ANN: "Burasi TRT Merkez Postasi 1648m, 182kHz, Uzun Dalga Ankara Radyosu" (Ankara); "Burasi TRT Bati Postalari 428m 701kHz Orta Dalga Istanbul Radyosu" (Istanbul).
INT-SIG: R. Ankara and R. Istanbul.



FOREIGN SERVICE
STATIONS (G.C: 30.42E/39.54N):

Call	kHz	m	kW	Call	kHz	m	kW
TAT	9515	31.53	100	TAP	15195	19.74	20
TAP	9745	30.78	20	TAV	17820	16.84	100
TAU	15160	19.79	100				

Arabic	kHz	Persian	kHz
16.00-16.30	9745	13.45-14.15a	17820
18.30-19.30	9745	15.30-16.00	9745
Bulgarian		**Pushtu**	
17.00-17.30	9745	13.15-13.45a	17820
English		**Rumania**	
14.15-14.45a	17820	16.30-17.00	9745
22.00-22.30b	15160	**Serbo-Croat**	
French		17.30-	9745
19.00-19.30b	15160	**Turkish**	
German		04.27-13.00	9745, 15160
18.30-19.00b	15160	11.00-13.00	9745, 15160
Greek		15.28-18.15	9515
18.00-18.30	9745	19.43-21.45	9515
		Urdu	
		14.45-15.15d	17820

*)—relay 182kHz for Turks abroad — a) to So. Ea. Asia; b) to We. Europe; c) to No. America.
N: at the beginning of every tr—**ANN:** E: "This is R. Ankara". F: "Ici postes émetteurs de Turquie, R. Ankara a ondes Courtes émettant sur une longueur d'onde de . . .". G: "Hier ist der Türkische Landessender Ankara, auf Kurzwelle . . .". Turkish: "Burasi Turkiye Radyo yayin postalari, kisa dalga Ankara Radyosu" — **INT-SIG:** As for Home Sce — **V.** by QSL-card — **F.PL:** Diyarbakir 209kHz 250kW — **PUB:** Prgr. schedule (weekly) for R. Ankara, R. Istanbul, R. Izmir, R. Antalaya, R. Adana, R. Gaziantep—**ALF:** Turkish TL 20.

TECHNICAL UNIVERSITY OF ISTANBUL (Gov.)

ADDR: Teknik Universite, Elektrik Fakültesi, Yüsek Frekans Teknigi kürsüsü, Istanbul. **Te:** 482250.
HOME SERVICE: I.T.U=Istanbul Teknik Universitesi. 6280kHz 47.77m 1kW: 18.00-20.30 (exc. Sat).
FM: 99.5MHz 0.25kW: 18.00-20.30 (exc. Sat). Frequencies are shifted slightly if interference occurs.
D.PRGR: Classical Music & National (Turkish) Music.
ANN: Turkish: Burasi Istanbul Teknik Universitesi Radyosu". E: "Here is the R. Station of the Technical University of Istanbul"—**INT-SIG:** "Turkish March" by Mozart—**V**-by letter. Rp.

ISTANBUL UNIVERSITY (Gov. Educ.)

ADDR: Fen Fakütesi (Faculty of Science), Tatbiki Fizik Merkezi, Istanbul. **Te:** 222808—**L.P:** Dir. Gen: Prof. Dr. F. Yenicay. St. Mgr: Y. Karni. Dir. Tec: Y. Kilıçhı.
STATION: 7450kHz 40.27m 1.75kW.
D.PRGR: 13.00-15.00 (propagation experiments), 16.00-18.00 — **University N:** 16.00.
ANN: "Burasi 40 metre dalgaboyu üzerinden tecrübe yayini yapan Istanbul Universitesi Fen Fakültesi Radyosu" ("Here is the Experimental R. Station of Istanbul University Faculty of Science broadcasting on 40m" — **V.** by letter. Recorded re. in E. preferred — **PUB:** Prgr. schedule free.

CINARLI SANAT ENSTITUSU DENEME RADYOSU (Education Schools)

ADDR: Izmir. **Te:** 33723.
STATIONS: 1200kHz 0.5kW—TAO6 7100kHz 0.25kW.
D.PRGR: 13.00-14.00—**ANN:** "Izmir Cinarli Sanat Enstitüsü Deneme Radyosu".

TECHNICAL SCHOOL OF ISTANBUL (Educ.)

ADDR: Istanbul Yüksek Teknik Okulu, Yildiz, Istanbul.
STATION: TAO5 7143kHz 42.01m 1.6kW — **D.PRGR'S:** W 18.00-20.00. Sun 11.00-13.00. Language Lessons (30 min's) & Music (Western & Turkish recordings)—**ANN:** "Burasi Istanbul Yüksek Teknik Okulu Radyosu"—**V.** by letter.

VIETNAM (Democratic Republic)

L.T: GMT + 7 h — **Pr.L:** Vietnamese.

THE VOICE OF VIETNAM (Gov.)

ADDR: No. 58, Quan-Su Street, Hanoi. **Te:** 4134.
STATIONS: Hanoi.

kHz	m			kHz	m		
1010	297.0	5985	50.13	9840	30.49	15020	19.97
1240	241.9	7210	41.61	11755	25.52		
4684	64.05	9760	30.74	11840	25.34		

HOME SCE: 21.14-23.30, 02.45-05.00, 07.30-08.30, 09.30-16.00 on 1010/4684/5985/11755kHz (also on 9840/11840kHz when not used for Foreign Sce.).

FOREIGN SERVICE: English: 23.00-23.30 on 1240/9840/11840kHz; 10.00-10.30, 13.00-13.30, 15.30-16.00 on 1240/9760/11755kHz— **French:** 23.30-23.45, 04.15-04.30, 13.30-14.00 on 1240/9840/11840kHz **Japanese:** 21.30-22.00 on 5985/7060/9760kHz, 12.30-13.00 and 14.00-14.30 on 9760/11755kHz—**Cantonese:** 09.00-09.30 on 9760/11755kHz, 14.30-15.00 on 1240/9840/11840kHz — **Korean:** 09.00-09.30 & 14.00-14.30 on 1240/9840/11840kHz. — **Thai:** 05.30-06.00, 12.00-12.30 on 1240/9840/11840kHz—**Cambodian:** 09.30-10.00 on 9760/11755kHz, 12.30-13.00 on 1240/9840/11840kHz—**Indonesian:** 09.30-10.00 on 1240/9840/11840kHz, 13.30-14.00 on 9760/11755kHz—**Standard Chinese:** 04.30-05.00 & 11.30-12.00 on 1240/9840/11840kHz.

ANN: E: "This is the Voice of Vietnam broadc. from Hanoi, Capital of the Democratic Republic of Vietnam"—**V.** by QSL-card. Prgr. schedules, pamphlets, pennants free. Recordings accepted.

VIETNAM (Republic)

L.T: GMT + 8 h — **Pr.L:** Vietnamese.

RADIO VIETNAM, VTVN (Radio Broadc. System of Vietnam)

ADDR: 3 Phan-dinh-Phung Str, Saigon. **Te:** 25935. **Cable:** VTVN.

L.P: Dir. Gen: Vuduc-Vinh. Asst. Dir. Gen: Le-Quang-Phung. Chief of Cabinet: La-Huy-Quy. Dir. Adm: Le-Quang-Phung. Dir. Tec: Tran-Cong-Than. Dir. Prgr: Vu-duc-Minh. Dir. of N: Vo-Hong-Chi. Dir. of Comm. Broadc: N. Hien. Dir. of Research, Training and Planning: Nguyen-the-Nam.

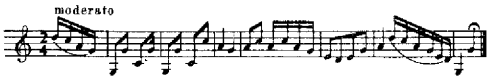
STATIONS: Saigon (G.C: 106/40E/10.37N):

kHz	m	kW	Prgr	kHz	m	kW	Prgr
540	555.6	1	AFRS	7175	41.81	10	A
610	491.8	20/60	B	7245	41.41	20	B
870	344.8	50/200	A	9620	31.19	200/50	A
820	365.9	10	C	6165	48.66	200/50	A
1010	297.0	10	A	9755	30.76	10	C
4877	62.51	80/20	A	11950	26.10	25	A

HOME SCE: Prgr. A (Vietnamese): 24 h — **N:** Every h on the h. **Prgr. B:** (Chinese): 00.00-02.00, 05.00-06.15, 14.30-15.30 — Vietnamese (Forces Prgr): 22.00-24.00, 03.30-05.00, 09.00-14.00. **N:** (Dictation) 06.15-07.00. **N. in English:** 15.30-16.00.**Prgr. C:** 21.58-00.30, 04.00-04.15, 10.00-13.00. **English:** 23.30-24.00, 12.00-12.30, 12.30-13.00 (N, Dictation). **French:** 11.00-12.00, **Cambodian:** 00.00-00.30, 10.15-11.00, **Thai:** 23.00-23.30 — **LL:** 22.30-23.00 (English), 04.00-04.15 (French), 10.00-10.15 (Vietnamese) — **AFRS Prgr** (English): 24 h.

ANN: Vietnamese: "Day là Tieng Nói Nuóc Viet-Nan phát thanh tù Thu do Saigon. F: "Ici VTVN, la Voix de la république du Viet-Nam émettant de Saigon". E: "This is VTVN, the Voice of the Republic of Viet-Nam broadc. from Saigon".

INT-SIG: Cither solo.



V. by QSL-card or letter. Rp. Recordings accepted.

REGIONAL STATIONS (G.C: Dalat 108.23E/11.45N; Nhatrang 109.10E/12.15N, Huê 107.40E/16.25N):

Location	kHz	m	kW	Location	kHz	m	kW
Banmethuot	690	434.8	50	Huê	1007	297.9	1
Huê	720	416.7	10	Da Nang	1090	275.2	1
Cantho	920	326.1	10	Qui Nhon	1253	239.4	1
Quang Ngai	800	375.0	10	Dalat	1420	211.3	0.25
Baxuyen	920	326.1	10	Dalat	1440	208.3	1
Nha Trang	970	309.3	1	Da Nang	4810	62.37	1

Banmethuot: 21.55-02.30, 04.00-15.30 — **Huê:** 22.25-01.00, 03.55-06.30, 09.55-15.00 — **Quang Ngai:** 21.55-24.00, 03.55-07.00, 08.55-14.15 — **Ba Xuyen:** 22.00-01.15, 02.00-05.15, 07.00-12.00 — **Nha Trang:** 22.00-00.30, 03.30-07.00, 09.45-15.15 — **Da Nang:** 22.00-01.10, 03.27-06.15, 09.57-14.15 — **Dalat:** 23.00-01.00, 04.00-06.00, 09.30-13.30 — **Qui Nhon:** 23.00-01.15, 03.00-05.15, 11.00-13.15 — **Cantho:** 21.55-01.00, 01.55-07.30, 08.55-16.00.

PROVINCIAL STATIONS (all 0.05kW):

Location	kHz	m	Location	kHz	m
Phu Yen	1420	211.3	Dinh-Tuong	1200	250.0
Long An	670	447.8	Kien Hôa	710	422.5

Phu Yen: 22.30-24.00, 04.00-05.30, 10.30-15.00 — **Long An:** 22.25-01.00, 03.55-05.30, 10.55-13.00 — **Dinh-Tuong:** 22.55-00.30, 03.25-05.30, 19.25-14.05 — **Kien Hôa:** 22.25-00.05, 03.55-05.40, 10.45-13.25.

VOICE OF AMERICA RADIO STATION IN VIETNAM

ADDR: Voice of America, Washington, D.C. 20547, USA.

STATION: Hue 760kHz 50kW: 11.00-16.30 Vietnamese.

ANN: "This is the Voice of America" is announced in Vietnamese during program and in English at beginning and end of daily transmission period.

YEMEN

L.T: GMT+3 h—**Pr.L:** Arabic.

RADIO SANA (Gov.)

ADDR: Sanaa—**L.P:** Dir. Gen: A. Sarham. Dir. Tec: H. Magdi.

STATIONS: 881kHz 340.5m 10kW—4938kHz 60.75m 25kW.

HOME SCE. in Arabic: 03.00-06.00, 11.00-15.00, 16.00-22.00 (approx) N: 04.00, 12.00, 17.00, 19.45.

ANN: "Huna San'aa"—**V.** by letter Rp.

PACIFIC

AUSTRALIA (Commonwealth of)

L.T: Tasmania: Oct–April: GMT + 11 h, April–Oct: GMT + 10 h; Ea. Austr: GMT + 10 h; So. Austr: GMT + 9½; We. Austr: GMT + 8 h — **Pr.L:** English.

AUSTRALIAN BROADCASTING COMMISSION (ABC)

Constituted under the Broadc. and TV-act 1942–67. The Australian National Broadc. Sce. prgr's are the responsibility of the ABC which is responsible to Parliament through the Postmaster-General. The technical sce's in Radio and TV studios are provided by the ABC Engineering Dept; the tr's are operated by the Postmaster-General's Department.

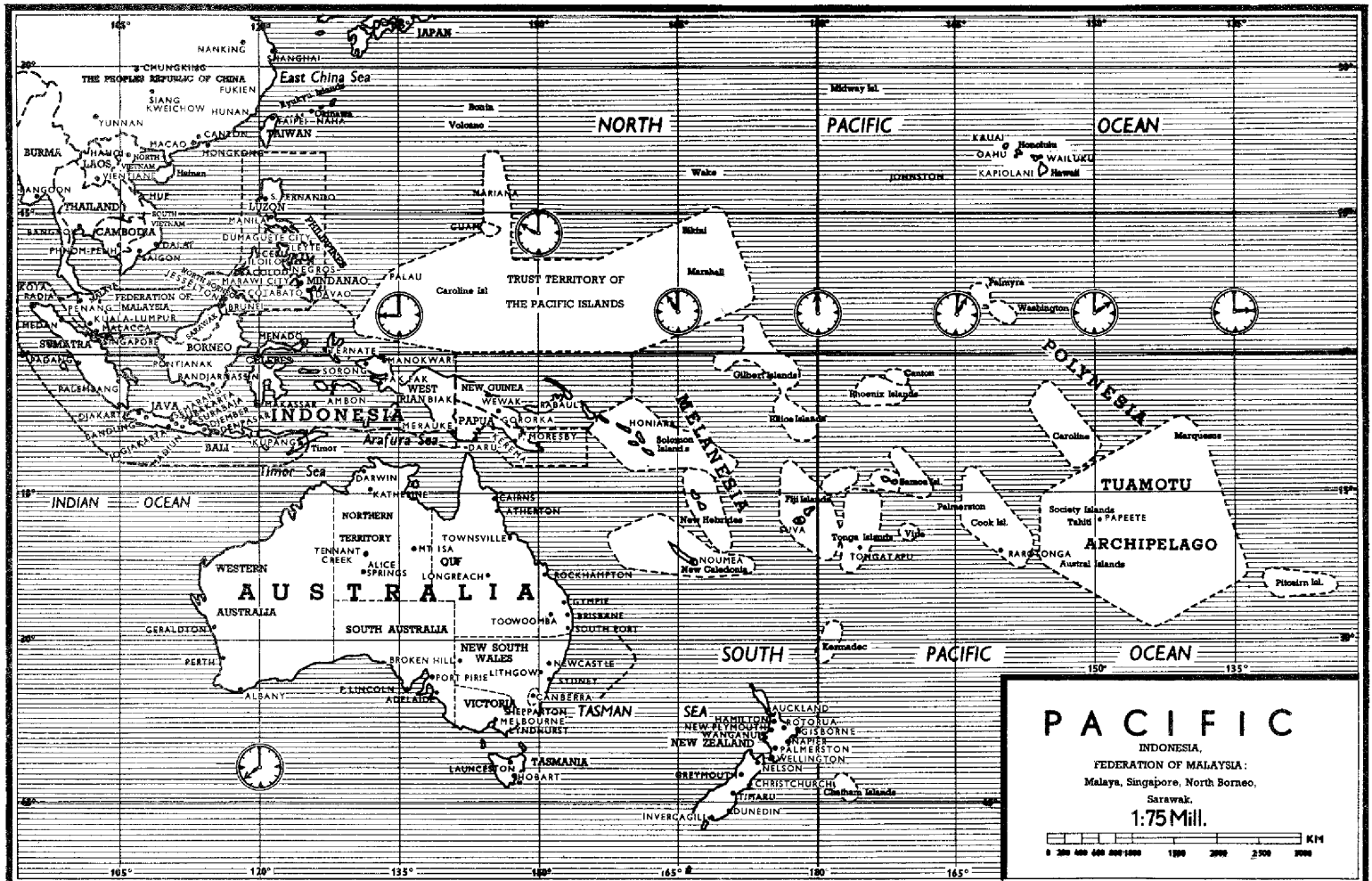
ADDR: Head Office: 145 Elizabeth St, Box 487 G.P.O, Sydney 2001. **Cable:** ABCOM. Tel: 31.0211.

L.P: Chmn: Sir Robert Madgwick, O.B.E. Gen. Mgr: T. S. Duckmanton. Dep. Gen. Mgr: C. W. Semmler. Asst. Gen. Mgr: W. S. Hamilton. Contr. of Prgr's: N. Hutchison. Contr. of N: W. K. Fraser. Contr. of Tech. Sce's: K. N. Middleton. Contr. of Management Sce's: P. A. Dorrian. Dir. Overseas Sce's: P. W. R. Homfray. Head of Inf. Sce's: S. L. Revill. European Repr: E. K. Sholl, 54 Portland Place, London W 1, England; North American Repr: Ch. Buttrose, Suite 2708, 1270 Ave. of the Americas, New York 10020, USA; Asian Repr: J. Hollinshead, 15 Peck Hay Road, Singapore 9; Indonesian Repr: M. Carlton, Apt. 33134, Djalan Kebon Sirih 40, Djakarta; Indian Repr: S. T. O'Connor, 116 Sunder Nagar, New Delhi; Japanese Repr: N. H. Peterson, Shinwa Bldg, 6th Floor, No. 10, 2-chome, Akasaka, Minato-ku, Tokyo: Malaysian Repr: W. P. Pinwill, Room 705, Asia Insurance Bldg, Jalan Weld, Kuala Lumpur.

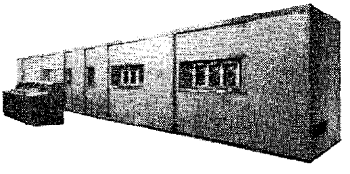
THE NATIONAL BROADCASTING SERVICE

MEDIUM WAVE SERVICE: 1 = Metropolitan. 2 = Regional. Stations in fat types are relayed on Shortwave.

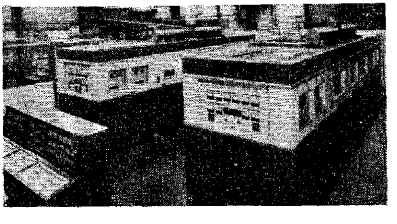
Call	kHz	kW	Location	
Australian Capital Territory				
2CY[1]	850	10	Canberra	b)
2CN[1]	1540	2	Canberra	a)
New South Wales				
2CR[2]	550	50	Orange	a)
2ML[2]	560	0.2	Murwillumbah	a)
2FC[1]	610	50	Sydney	a)
2NU[2]	650	10	Tamworth	a)
2CO[2]	670	10	Albury	a)
2KP[2]	680	10	Kempsey	a)
2NR[2]	700	50	Grafton	a)
2TR[2]	720	0.2	Taree	a)
2BL[1]	740	50	Sydney	a)
2NB[2]	760	1	Broken Hill	c)
2AN[2]	760	0.05	Armidale	a)
2BA[2]	810	10	Bega	a)
2GL[2]	820	10	Glen Innes	a)
2UH[2]	1040	1	Muswellbrook	a)
2NC[1]	1230	10	Newcastle	a)
2NA[1]	1510	10	Newcastle	b)
2LG[2]	1570	0.2	Lithgow	a)
2CP[2]	1570	0.05	Cooma	b)
2WN[2]	1580	2	Wollongong	a)
Victoria				
3WV[2]	580	50	Horsham	a)
3AR[1]	**620**	**50**	**Melbourne**	**a)**
3LO[1]	**770**	**50**	**Melbourne**	**a)**
3GI[2]	830	10	Sale	a)
3WL[2]	1570	0.2	Warnambool	a)
Queensland				
4QL[2]	540	10	Longreach	a)
4QR[1]	590	50	Brisbane	a)
4AT[2]	600	4/2	Atherton	b)
4QN[2]	630	50	Townsville	a)
4QW[2]	710	10	St. George	a)
4QA[2]	720	2	Mackay	a)
4QS	750	10	Toowoomba	a)
4QG[1]	790	10	Brisbane	b)
4RK[2]	840	10	Rockhampton	a)
4QB[2]	910	10	Maryborough	a)
4QO[2]	910	10	Eidsvold	a)
4QY[2]	940	2	Cairns	a)
4MI[2]	1080	0.2	Mount Isa	a)
4QD[2]	1550	50	Emerai	a)
4GM[2]	1570	0.2	Gympie	a)
4SO[2]	1590	0.2	Southport	a)


PACIFIC
INDONESIA,
FEDERATION OF MALAYSIA:
Malaya, Singapore, North Borneo,
Sarawak.
1:75 Mill.
KM
NORTH PACIFIC OCEAN
SOUTH PACIFIC OCEAN
INDIAN OCEAN
TASMAN SEA
East China Sea
Timor Sea
Arafura Sea
TRUST TERRITORY OF THE PACIFIC ISLANDS
MELANESIA
POLYNESIA
TUAMOTU ARCHIPELAGO
AUSTRALIA
INDONESIA
BURMA
THAILAND
CAMBODIA
LAOS
BORNEO
SUMATRA
JAVA
BALI
LUZON
MINDANAO
TAIWAN
JAPAN
NEW GUINEA
PAPUA
NEW SOUTH WALES
VICTORIA
TASMANIA
NEW ZEALAND
NORTHERN TERRITORY
WESTERN AUSTRALIA
SOUTH AUSTRALIA
QUEENSLAND
NEW CALEDONIA
NEW HEBRIDES
SOLOMON ISLANDS
Caroline Isl
Midway Isl.
Wake
Palmyra
Washington
Canton
Rhoenix Islands
Gilbert Islands
Ellice Islands
Fiji Islands
Samoa Isl.
Tonga Islands
Palmerston
Cook Isl.
Society Islands
Tahiti
Austral Islands
Pitcairn Isl.
Caroline
Marquesas
Kermadec
Chatham Islands
Bonin
Volcano
Okinawa
Ryukyu Islands
Hainan
Timor
Bikini
Marshall
Palau
Guam
Mariana
Honolulu
Hawaii
Kauai
Oahu
Wailuku
Kapiolani
Johnston
Nanking
Shanghai
Chungking
Fukien
Siang
Kweichow
Hunan
Yunnan
Canton
Macao
Hongkong
Hanoi
Vientiane
Hue
Bangkok
Phnom-Penh
Saigon
Dalat
Manila
Dumaguete City
Leyte
Cebu
Iloilo
Bacolod
Negros
Marawi City
Cotabato
Davao
Brunei
Kuala-Lumpur
Malacca
Singapore
Penang
Kota Radia
Medan
Padang
Palembang
Djakarta
Bandung
Jogjakarta
Sumarang
Surabaja
Djember
Pontianak
Bandjarmassin
Makassar
Kupang
Menado
Ternate
Manokwari
Sorong
Fak Fak
Biak
Wewak
Rabaul
Gorokra
Merauke
Moresby
Darwin
Katherine
Cairns
Atherton
Townsville
Mt Isa
Tennant Creek
Alice Springs
Longreach
Rockhampton
Gympie
Brisbane
South Port
Toowoomba
Geraldton
Perth
Albany
Broken Hill
Port Pirie
Lithgow
Newcastle
Sydney
Canberra
Shepparton
Melbourne
Lyndhurst
Launceston
Hobart
Auckland
Hamilton
New Plymouth
Wanganui
Rotorua
Gisborne
Napier
Palmerston
Wellington
Nelson
Greymouth
Christchurch
Timaru
Dunedin
Invercagill
105°
120°
135°
150°
165°
180°
165°
150°
135°
20°
15°
10°
5°

Continental Electronics...

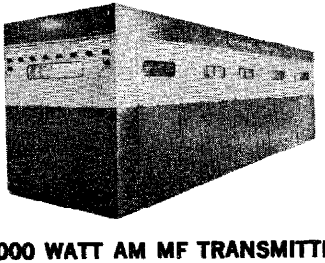


1,000,000 WATT AM MF TRANSMITTER
Continental designed and built the first super-power transmitter for the Voice of America. Delivering 1,000,000 watts of continuous power to the antenna, it was installed at Munich in 1953. Similar Continental 1,000,000 watt broadcast transmitters are installed in Okinawa, the Philippines, Thailand, Central America and Egypt.

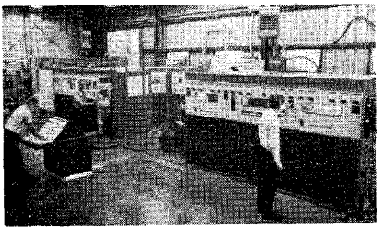


1,000,000 WATT AM MF TRANSMITTER
Continental's newest 1,000,000 watt transmitter during construction, factory test early in 1968.

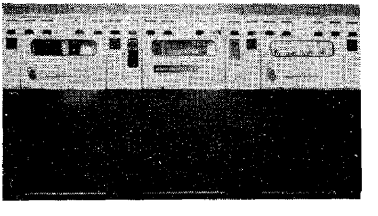
500,000 WATT AM MF TRANSMITTER



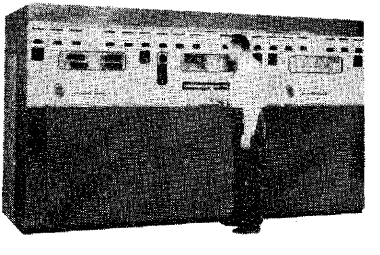
250,000 WATT AM MF TRANSMITTER



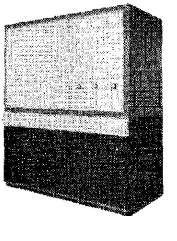
200,000 WATT AM MF TRANSMITTER
Two Continental 100,000 watt transmitters combined for 200,000 watt output.



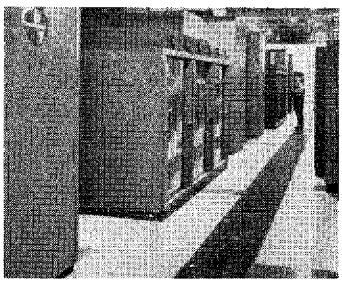
100,000 WATT AM MF TRANSMITTER



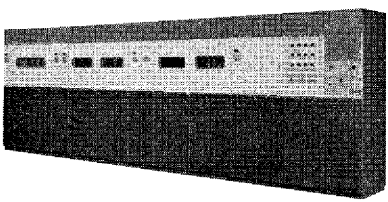
50,000 WATT AM MF TRANSMITTER



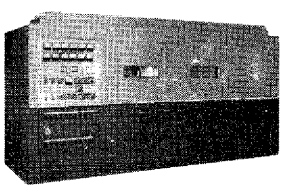
10,000 WATT AM MF TRANSMITTER



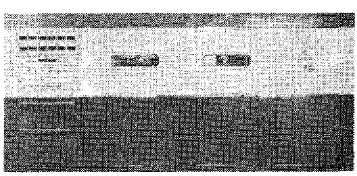
500,000 WATT AM HF TRANSMITTER



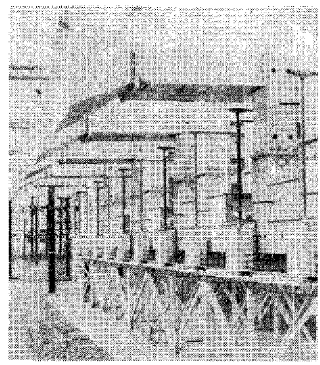
250,000 WATT AM HF TRANSMITTER



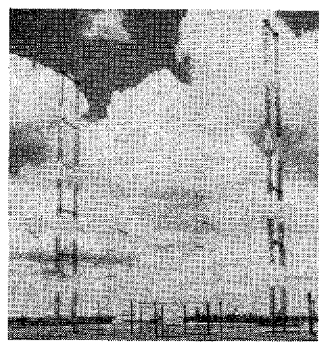
100,000 WATT AM HF TRANSMITTER



50,000 WATT AM HF TRANSMITTER



TRANSMISSION LINE SWITCHING MATRIX



Continental has gained worldwide experience in the design, engineering, development, construction and installation of specialized broadcast systems and components. This equipment includes: specialized antenna systems, transmitter dummy loads, phasing and coupling equipment and combiners for a wide range of transmitter power levels.

When you need high power broadcast equipment, come to the specialists! For information, write: A. V. Collins, International Broadcasting, Continental Electronics Mfg. Co., Box 17040, Dallas, Texas 75217.

Continental Electronics Co.

MAIL ADDRESS: BOX 17040/DALLAS, TEXAS 75217

A SUBSIDIARY OF LTV ELECTROSYSTEMS, INC.

Australia

South Australia				
5CK[2]	640	10	Port Pirie	c)
5CL[1]	730	50	Adelaide	d)
5AN[1]	890	50	Adelaide	c)
5PA[2]	1160	2	Penola	c)
5LN[2]	1530	0.2	Port Lincoln	c)
5WM[2]	1580	0.05	Woomera R. Range	c)
5MG[2]	1580	0.2	Mt. Gambier	c)
5MW[2]	1590	2	Renmark	c)
Western Australia				
6DL[2]	530	10	Dalwallinu	e)
6WA[2]	560	50	Wagin	e)
6NM[2]	600	0.2	Northam	e)
6PH[2]	600	2	Port Hedland	
6AL[2]	650	0.4	Albany	e)
6BE[2]	670	0.05	Broome	
6WF[1]	690	50	Perth	e)
6CA[2]	720	0.2	Carnarvon	e)
6GF[2]	660	2	Kalgoorlie	e)
6WN[1]	810	10	Perth	f)
6GN[2]	830	2	Geraldton	e)
6ED[2]	840	1	Esperance	e)
6DB[2]	870	2	Derby	
Tasmania				
7ZL[1]	600	10	Hobart	b)
7QN[2]	630	0.4	Queenstown	a)
7NT[2]	710	10	Launceston	a)
7ZR[1]	940	10	Hobart	a)
Northern Territory				
8DR[2]	650	2	Darwin	c)
8KN[2]	670	0.05	Katherine	c)
8TC[2]	680	0.05	Tennant Creek	e)
8AL[2]	1530	0.05	Alice Springs	c)
Papua/New Guinea				
9PA	**1250**	**2**	**Port Moresby**	**b)**
9RB	810	2	Rabaul	g)

a) 20.00 (Sun 20.30)–14.02; b) 20.00 (Sun 20.30)–14.00; c) 20.00 (Sun 20.30)–14.32; d) 20.00 (Sun 20.30)–14.30; e) 22.00 (Sun 22.30)–16.02; f) 22.00 (Sun 20.30)–16.00; g) 20.00 (Sun 20.30)–03.45, 06.15–12.45.

NEWS: 20.03 (2CY, 2FC, 2NR, 3WV); **20.30** (2FC, 2NR, 3WV, 4QN); **21.00** (2ZY, 2NR, 2BL, 3WV, 4QR, 5AN); **21.00** (4QN, 5CL); **21.15** (2PC); **21.45** (2CY, 2NR, 2BL, 3WV, 4QR, 5AN); **22.00** (2CY, 2NR, 4QN, 6WA, 6WF, 6WN); **22.15** (5CL); **22.30** (6WA); **22.45** (6WA, 6WF); **00.00** (6WA); **00.25** (2CY, 2NR, 2BL, 3WV, 4QR, 5AN, 6WA, 6WF); **02.30** (2CY, 2FC, 2NR, 3WV, 6WA, 6WN); **03.00** (2BL, 4QR, 5CL, 6WF); **03.30** (2CY, 2FC, 2NR, 3WV); **03.45** (4QN, 5CL); **04.00** (5AN); **04.30** (6WA, 6WN); **06.00** (2CY, 2FC, 2NR, 3WV, 5CL, 6WA, 6WN); **08.53** (2CY, 2NR, 3WV, 4QN); **09.00** (2CY, 2FC, 2NR, 2BL, 3WV, 4QR, 5CL, 5AN, 6WF); **10.00** (6WA); **11.00** (2CY, 2NR, 3WV, 6WA, 6WN); **12.00** (2FC, 5CL); **13.00** (2CY, 2FC, 2NR, 3WV, 5CL, 6WA); **13.55** (2CY, 2BL, 2NR, 3WV); **14.25** (5AN); **15.00** (6WA, 6WN); **15.55** (6WF, 6WA).

DOMESTIC SHORT WAVE SERVICE

ADDR: Sydney: A.B.C, Box 487, G.P.O. 2001 — **Melbourne:** A.B.C, Box 1686, G.P.O. 3001 — **Brisbane:** A.B.C, Box 293E, G.P.O. 4001 — **Perth:** A.B.C, Box 190D, G.P.O. 6001 — **Papua/New Guinea:** A.B.C, Box 1359, Boroka.

STATIONS: G.C: Sydney (150.54E/33.57S): VLI (2kW) — **Melbourne** (145.25E/37.20S): VLG, VLH & VLR (10kW) — **Brisbane** (153.01E/27.19S): VLQ & VLM (10kW) — **Perth** (115.49E/31.51S): VLW (10kW) & VLX (50kW) — **Port Moresby** (147.08/09.27S): VLT & VLK (10kW).

Call	kHz	m	h of tr. W	Sun
VLI6	6090	49.26	20.00-14.07	20.30-14.07
VLH11	11880	25.25	20.00-22.45	20.30-22.15
VLH15	15230	19.70	23.00-08.15	22.30-08.15
VLH9	9680	30.99	08.30-14.07	08.30-14.07
VLR6	6150	48.78	20.00-22.15	22.30-22.45
			08.30-14.00	08.30-14.00
VLR9	9680	30.99	22.30-08.30	23.00-08.30
VLQ9	9660	31.06	20.00-14.07	20.30-14.07
VLM4	4920	60.98	20.00-14.07	20.30-14.07
VLW6	6140	48.86	22.00-24.00	22.30-24.00
			10.30-16.07	10.30-16.07
VLW9	9610	31.22	00.15-10.15	00.15-10.15
VLX9	9610	31.22	as VLW6	
VLX15	15425	19.45	00.15-10.15	00.15-10.15
VLT4	4890	61.35	20.00-22.00	20.30-22.00
			07.30-14.00	07.30-14.00
VLT9	9520	31.51	as VLT4	
VLK3	3925	76.43	as VLT4	
VLK4	4890	61.35	22.15-07.15	22.15-07.15
VLG	15220	19.71	20.00-22.00	20.00-22.00

VLG takes Victorian regional prg's & rel. from R. Australia. VLR relays 3LO, VLH relays 3AR, VLI takes N.S.W. regional prg's, VLQ and VLM takes Queensland regional prg's, VLW and VLX takes We. Australian regional prg's, VLT and VLK relay 9PA.

N: 20.03 (not Sun), 20.30 (not Sun), 20.45, 21.15, 21.45, 00.25 (exc. Sat/Sun), 02.30, 03.30, 06.00 (not Sun), 09.00, 11.00 (not Sat), 13.00 (BBC & Aust), 13.55 — **Wrp:** included in N, also 22.45 (Sun), 02.40 (Sat), 02.45 (Mon-Fri), 03.45 (Mon-Fri), 08.28 (Sun), 08.55 (Sat) — **T.S: on the h — NOTE:** Although times are in GMT, calendar days apply to the Ea. States of Aust. only.

ANN: "This is the A.B.C. . ." — **INT-SIG:** Three Gongs (C.F.A.) — **V.** by QSL-card and letter. Re. to ABC in capital city of state in which st. is located — **PUB:** "TV Times", "ABC R. Guide", "The ABC Reports . . .", R. Australia Prgr. Guide, Schools Broadcasts booklets, Boyer Lectures, and other publications as necessary. **FI:** By annual appropriation from Commonwealth Gov's budget — **ALF:** Radio & TV (combined): A$17, – A$6.50 (radio only).

OVERSEAS SERVICE—RADIO AUSTRALIA

ADDR: Radio Australia, P.O. Box 428G, G.P.O, Melbourne. **Cable:** Newscast. **Te:** 676911.

TRANSMITTERS: The tr's of Collins, STC, AWA and RCA, manufacture are located at Shepparton (145.25E/36.20S) 4 × 100kW, 2 × 50kW and 1 × 10kW, Lyndhurst (145.16E/38.03S) 2 × 10kW, and Darwin (130.38E/12.25S) 3 × 250kW and are capable of operating on any freq. allocated for international broadc. in the 13, 16, 19, 25, 31, 41 and 49m.b.

NOTE: Radio Australia in common with all international broadcaster's has no assigned freq's but is allocated certain freq's for use during definite periods.

SERVICES: I: So/So. Ea./So. We. As, II: Ea. As/No. Pacific Isl; III: So. Pacific Isl; IV: Mid-Pacific Isl; V: British Isles/Eu; VI: No. America (Ea). VII: No. America (We.) VIII: Af. — Antennas: Shepparton & Lyndhurst: Curtain arrays; Darwin: Log Periodic.

Transmissions: November 68 — April 69

Frequencies: *50kW — **10kW; others 100kW.

		kHz/Beam			
English			VII:	01.00-03.00	*21740 (63°)
I:	22.14-22.45	15220 (320°)			17840 (63°)
	22.45-01.00	17870 (308°)			15320 (63°)
		15220 (320°)	VIII:	03.30-05.00	17820 (250°)
	01.00-08.00	*21540 (320°)			15320 (250°)
		17870 (308°)	**French:**		
	08.00-08.30	17870 (308°)	I:	23.15-00.15	*17715 (320°)
	08.30-09.30	17870 (308°)	IV:	00.15-01.15	**15240 (52°)
		15320 (308°)		05.00-06.00	15220 (73°)
		*11880 (308°)	VIII:	05.00-06.00	17820 (250°)
	09.30-15.00	*11880 (308°)			15320 (250°)
		*9570 (320°)	**Indonesian**		
	15.00-17.30	11740 (308°)	I:	22.30-00.30	11780 (342°)
		9540 (308°)			15320 (308°)
II:	20.59-23.00	*17715 (342°)		06.30-08.30	17820 (320°)
		*15240 (342°)			15320 (308°)
	23.00-24.00	*15240 (342°)		10.00-11.30	11740 (308°)
	08.59-10.00	**15140 (347°)			7220 (308°)
		11810 (342°)		14.30-15.00	11740 (308°)
	10.00-11.00	**15140 (347°)			7220 (308°)
	11.00-12.12	**15140 (347°)	**Japanese**		
		11810 (342°)	II:	10.00-11.00	11810 (342°)
	12.12-14.00	**15140 (347°)			9580 (342°)
III	18.00-22.00	11810 (118°)	**Mandarin**		
	02.00-08.00	**15240 (110°)	I:	11.30-13.30	11740 (308°)
	06.45-09.15	11710 (128°)			7220 (308°)
		*9560 (128°)		14.30-15.00	11790 (320°)
IV:	18.00-20.00	**11840 (63°)			9540 (308°)
		9540 (63°)	**Cantonese**		
	20.00-22.00	**15180 (42°)	I:	13.30-14.30	11740 (308°)
		**11840 (63°)			7220 (308°)
		9540 (63°)	**Vietnamese**		
	22.00-00.30	**15180 (42°)	I:	12.30-13.30	11790 (320°)
		**11840 (63°)			9540 (308°)
	00.30-08.30	**15180 (42°)	**Thai**		
	08.30-12.12	**7190 (52°)	I:	13.30-14.30	11790 (320°)
V:	06.45-07.45	11710 (128°)			9540 (308°)
		*9560 (128°)			
VI:	12.15-13.15	**11710 (63°)			
		9580 (63°)			

Frequencies are subject to alteration. Details of alterations are given in the transmissions concerned for three days before the effective date and in "Transmission Parade" and DX-ers Calling".

FIXED PROGRAMMES

ENGLISH: News: 00.15(I/IV), 01.30(I/IV/VI/VII), 02.30(I/IV/VI/VII), 03.45(VIII), 04.00(I/IV), 04.45(VIII), 05.00(I/IV), 06.00(I/IV), 07.00 (I/IV), 07.15(V), 09.00(I/II/III/IV), 10.00(I/II/IV), 11.00(I/II/IV), 12.00 (I/II/IV), 12.30(VI), 13.00(I/II), 14.00(I), 15.00(I), 16.00(I), 17.00(I), 18.00(III/IV), 19.00(III/IV), 20.00(III/IV), 21.00(II/III/IV), 21.45(II/III/IV), 22.45(I/II/IV), 23.00(Forces)(I), 23.30(I/II/IV) — **News Focus:** Wed/Thurs/Fri/Sat 10.10(I/II/IV), 12.45(VI), 13.10(I/II), 16.10(I), 19.10(III/IV) — **International Report:** Sun 19.10(III/IV); Mon 03.55 (VIII), 07.00(V), 10.30(I/II/IV), 12.45(VI), 15.30(I); Tues 01.40(VI/VII); Thurs 04.00(VIII), 05.30(I/IV) — **Commentary:** Mon-Fri 07.35(V), 08.20(I/III/IV), 11.20(I/II/IV), 13.05(VI), 17.15(I) — **Mailbags: Pacific, Asia, Africa Edition:** Sat 18.30(III/IV), 21.15(II/III/IV); Sun 01.00(I/IV), 03.55(VIII), 05.30(I/IV), 11.30(I/II/IV), 14.15(I). **British Isles/European Edition:** Sun 07.00(V). **North America Edition:** Sun 12.45(VI); Mon 01.10(VI/VII) — **DXers Calling:** Sat 19.30(III/IV), 22.00(II/IV); Sun 04.30(VIII), 07.30(V), 13.00(VI), 15.30(I); Mon 02.15(VI/VII) — **Stock Exchange Report:** Fri 09.15(I/II), 12.20(VI), 14.20(I); Sat 02.45 (VI/VII), 07.30(V) — **Request Prgr: Listeners' Choice:** Sun 11.10(I/II/IV), D 14.30(i); **Music By Request:** D 00.30(I/IV) — **Sport:** Results Daily (exc. Sun) at 08.30(I/II/IV). Descriptions and results of major sports events in Australia and Overseas Sat 02.00 07.30 to (I) on 21540kHz and to (III) on 15240kHz. World Sport Report: Wed 11.30 (I/II/IV), 19.45(III/IV) — **Programme Previews:** 08.20(I/III/IV), 09.55 (I/II/IV), 11.25(I/II/IV), 15.55(I). A preview is given at the start of each daily tr. to North America, British Isles/Europe and Africa and also three minutes before the close of these respective tr — **Transmission Parade:** Fri 20.54(III/IV), 22.10(II/IV); Sat 05.45(I/IV), 14.25(I) — **National Music:** Music by Australian artists and composers is broadcast regularly in all transmissions.

FRENCH: N: 23.30(I), 00.30(IV), 05.30(IV/VIII). **Commentary:** Mon-Fri 23.42(I), Tues-Sat 01.00(IV), 05.42(IV/VIII). **International Report:** Mon 00.00(I), 00.45(IV), 05.15(IV/VIII). **Mailbag:** Sun 00.00(I), 00.45 (IV), 05.45(IV/VIII).
INDONESIAN: N: 23.15, 00.15, 06.45, 08.00, 10.10, 11.00. **Breakfast Session:** D 22.32. **News Focus:** Wed, Sat 10.30. **International Report:** Thurs, Fri 10.30. **Mailbag:** Sun 10.30, Tues 07.00. **English Lessons for Indonesians:** Mon/Tues 10.30, Thurs/Fri 07.00. **Commentary:** Mon-Fri 11.10.
JAPANESE: N: 10.30. **International Report:** Sat 10.10. **Mailbag:** Sun 10.02. **Commentary:** Mon-Fri 10.42 — **DX-Session:** Sun 10.45.
MANDARIN N: 11.45, 13.15. **News Focus:** Wed, Sat 12.30. **Commentary:** Mon-Fri 11.57. **Mailbag:** Sun 12.30.
CANTONESE: N: 14.00. **Mailbag:** Sun 13.40. **News Focus:** Wed 13.45, Sat 13.40. **Commentary:** Mon-Fri 14.12.
VIETNAMESE: N: 13.00. **International Report:** Sat 13.15. **Commentary:** Mon-Fri 13.15. **English Lessons for Vietnamese:** Sun, Sat 12.35. **Mailbag:** Sun 13.15.
THAI: N: 14.00. **International Report:** Mon 13.45. **Commentary:** Mon-Fri 14.15. **English Lessons for Thais:** Fri 13.32. **Mailbag:** Sun 13.45.
ANNOUNCEMENTS: "This is Radio Australia transmitting the Overseas Service from the Melbourne studios of the A.B.C." or "You are tuned to Radio Australia, the Overseas Service of the A.B.C.". Frequencies are given at regular intervals.
TUNING AND INTERVAL-SIGNAL: Celeste playing "Waltzing Matilda" for five minutes preceeding programmes to all areas. Transmissions commence with the laugh of the Australian bird, the Kookaburra.
VERIFICATION: Listeners reports are welcomed and correct reports are confirmed by verification card.
PUBLICATIONS: A programme booklet is available free upon application.
TENTATIVE SCHEDULE: for transmissions from **Darwin**(250kW) from December, 1968:
21.00-22.00 on 7160kHz(340°) to East Asia; 22.15-17.30 on 15270kHz (301°) to South-East Asia. It is emphasised that the Darwin tr's will be used for tr's directed to Asia and not for other Radio Australia target areas.
PRIVATELY OWNED BROADCASTING STATIONS associated in a body called:
Federation of Australian Commercial Broadcasters — **Addr:** Box 7024 G.P.O, Sydney 2001. **Te:** 29-1738. **Cable:** AFOBS
LP: Federal Dir: E.L. Sommerlad. Exec. Secr: H. M. Goodsall. Research & Promotion Officer: J. H. Sturzaker. Public. Rel. Officer: R. Logie.
Regional offices: 7th Floor, 64 Elizabeth St, Melbourne 3000. **Te:** 63-7255; 187-191 Queen St, Brisbane 4000; 177 Currie St, Adelaide 5000; P.O. Box X 2296, Perth 6001.
The Australian Broadcasting Control Board is a Go. Authority responsible for the planning of the broadc. sce's ensuring that technical equipment and prgr. sce's are of adequate standards and determining power, frequency and periods of operating of st's. **Addr:** 373 Elizabeth Str, Melbourne, C.1. **Cable:** Conboard. **Te:** 30-4321.
2CH is controlled by the new South Wales Council of Churches **2SM** by the Roman Catholic Church, **5KA** and **5AU** by the Methodist Church.
Abbreviations: Amalg = Amalgamated, Ass = Associated, Me = Melbourne, B. Casters = Broadcasters, Transc = Transcontinental.
Note: Times quoted are GMT, but refer to local calendar days. x) = Capital city stations

NEW SOUTH WALES: Call letter: 2–

	Call	kHz	kW	Times		Call	kHz	kW	Times
1)	KM	530	2(d)	a	20)	DU	1250	2	b12
2)	BH	660	0.2	c	21)	SM	*1270	5	24h
3)	KA	780	2	a7	22)	TM	1290	2	b1
4)	GB	*870	5	24h	23)	LF	1340	2	c4
5)	LM	900	2/1	cl	24)	NX	1360	2	24h
6)	XL	920	2/1	24h	25)	LT	1370	0.5	b13
7)	UE	*950	5	24h	26)	GN	1380	2	c3
8)	GZ	990	2	c2	27)	PK	1400	2	c3
9)	KY	*1020	5	24h	28)	KO	1410	2	24h
10)	CA	1050	2	b	29)	WL	1430	2	c2
11)	RG	1070	2/1	c3	30)	MW	1440	2	b14
12)	MO	1080	2	b2	31)	MG	1450	2	c6
13)	UW	*1110	5	24h	32)	NM	1460	2/1	b2
14)	AD	1130	2	c5	33)	BE	1480	2/1	c19
15)	HD	1140	2	24h	34)	AY	1490	2	b3
16)	WG	1150	2	b3	35)	BS	1500	2	c7
17)	CH	*1170	5	b9	36)	QN	1520	2	c8
18)	NZ	1190	2	b10	37)	VM	1530	2/0.5	a3
19)	GF	1210	2	b1	38)	RE	*1560	2	b2

VICTORIA: Call letter: 3–

39)	UL	530	2(d)	b15	48)	SR	1260	2	a4
40)	UZ	*930	5	24h	49)	AW	1280	5	24h
41)	BO	960	2	b4	50)	BA	1320	2	24h
42)	HA	1000	2	al	51)	SH	1330	2	c3
43)	DB	*1030	5	24h	52)	GL	1350	2	b17
43)	LK	1090	2	b5	53)	XY	*1420	5	24h
44)	CS	1130	2(d)	al	54)	CV	1440	2	a2
45)	KZ	*1180	5	b5	55)	MA	1470	2	dl
46)	YB	1210	2	b15	56)	AK	*1500	5	**
47)	TR	1240	2	24h	57)	NE	1600	2/1	a4

QUEENSLAND: Call letter: 4–

58)	KZ	530	2	24h	62)	GR	860	2	b2
59)	AM	560	2		63)	WK	880	2/1	c10
60)	KQ	*690	2	24h	64)	VL	920	2/1	c11
61)	TO	780	2	b18	65)	AY	960	2	b1

LISTENERS CLUB

You can join Radio Australia's Listeners Club—and receive the club badge and certificate—by: Providing 12 reception reports at a rate of two per month over a period of six months.

Numbering each report 1, 2, 3, etc., to 12 to assist us in keeping records.

Providing the following details in each report: name of programme, frequency, date, time, comment on reception quality, and type of receiver.

It is preferable, though not essential, to send these reports on Radio Australia reception report cards, which are available on application to: Radio Australia, Melbourne, Australia. Verification cards are sent for each correct reception report.

RADIO AUSTRALIA
OVERSEAS SERVICE OF THE AUSTRALIAN BROADCASTING COMMISSION
BOX 428 G, G.P.O. MELBOURNE, VICTORIA, 3001

Australia

QUEENSLAND

	Call	kHz	kW	Times		Call	kHz	kW	Times
66)	RO	1000	2	b19	74)	BK	*1300	2	24h
67)	CA	1010	2	c4	75)	NA	1320	2	b7
68)	IP	1010	2	b20	76)	BU	1330	2	b12
69)	SB	1060	2	c10	77)	GY	1350	2/1	b7
70)	LG	1100	2	b6	78)	LM	1370	2	c12
71)	BC	*1120	2	24h	79)	MK	1380	2	b8
72)	MB	1160	2	b2	80)	BH	*1390	2(d)	a6
73)	GG	1200	2	b23	81)	ZR	1480	2/1	c13
74)	AK	1220	2	24h					

SOUTH AUSTRALIA: Call letter: 5–

82)	RM	800	2	c14	84)	AD	*1310	2	24h
83)	DN	*970	2	24h	84)	SE	1370	0.5	c16
84)	PI	1040	2	c15	86)	AU	1450	2(d)	c18
85)	KA	*1200	2	24h	84)	MU	1460	2/1	c17

WESTERN AUSTRALIA: Call letter: 6–

87)	VA	780	2	h	88)	PM	*1000	2	g
88)	AM	860	2	g	88)	GE	1010	2	g
89)	PR	*880	2	24h	90)	WB	1070	2	h
90)	BY	900	2	h	90)	IX	*1080	2	24h
89)	TZ	960	2	f2	90)	MD	1100	2	h
91)	NA	920	2	24h	89)	CI	1130	2	f2
88)	KG	980	2	g	91)	KY	*1320	2	24h

TASMANIA: Call letter: 7–

92)	SD	540	2	f	96)	AD	900	0.5	d
93)	BU	560	2/1	c9	97)	EX	1010	2	***
94)	QT	720	0.5	e	98)	HT	*1080	2	b
95)	HO	*860	2	a6	99)	LA	1100	2	b22

NORTHERN TERRITORY: Call letter: 8–

100) DN 1240 2 c5

* 16/4-15/8: 21.00-07.00; 16/8-15/10: 21.00-08.00; 16/10-15/2: 20.00-09.00; 16/2-15/4: 20.00-08.00 — ** 18.30 (Sun 19.30) — 15.00; *** 18.45 -14.00; a = 19.00 (Sun 20.30) — 13.30 (Sun 12.15); a1 = 19.00 (Sun 21.30)-13.30 (Sat 14.00, Sun 12.30); a2 = 19.00 (Sun 20.00)-14.00 (Sun 13.00); a3 = 19.00 (Sun 20.30)-14.00 (Sat 15.00, Sun 13.00); a4 = 19.30 (Sun 21.00)-13.30 (Sat 14.00, Sun 13.00); a5 = 19.00 (Sun 20.00)-13.00 (Sat 14.00); a6 = 19.00-15.00; a7 = 19.00-12.30; b = 19.30 (Sun 20.00)-14.00; b1 = 19.30 (Sun 20.00)-13.30; b2 = 19.30-13.00 (Sat 14.00); b3 = 19.30 (Sun 21.00)-14.00 Sun 13.00); b4 = 19.30 (Sun 21.00)-14.00 (Sun 13.30); b5 = 19.30 (Sun 21.00)-15.00; b6 = 20.00 (Sun 22.00)-17.00 (Sat 14.00, Sun 12.30); b7 = 19.30-12.00; b8 = 19.30-12.30; b9 = 19.30 (Sun 22.00)-14.00 (Sun 13.00); b10 = 19.30 (Sun 21.00)-13.00 (Sat 14.00, Sun 12.30); b11 = 19.30 (Sun 21.00)-13.45; b12 = 19.30 (Sun 20.00)-14.00 (Sat 15.00, Sun 13.15); b13 = 19.30 (Sun 21.30)-12.30 (Sun 12.00); b14 = 19.30 (Sun 22.00)-13.00 (Sun 12.00); b15 = 19.30 (Sun 21.00)-13.30 (Sat 14.00); b16 = 19.30-13.30 (Sat 15.00); b17 = 19.30 (Sun 21.30)-13.00 (Sat 13.30, Sun 12.30); b18 = 19.30 (Sun 20.30)-13.30 (Sat 14.00); b19 = 19.30 (Sun 20.00)-13.00 (Sun 12.30); b20 = 19.30 (Sun 21.00)-12.30 (Sat 13.30); b21 = 19.30 (Sun 21.45)-12.30 (Sun 12.00); b22 = 19.30 Sun 21.30)-14.00 (Sun 13.00); b23 = 19.30-16.00; c = 20.00 (Sun 22.00)-13.00 (Sun 12.00); C1 = 20.00 (Sun 22.00)-13.30 (Sat 14.00); c2 = 20.00-12.30; c3 = 20.00 (Sun 21.00)-13.00; c4 = 20.00-13.05 (Sun 13.00); c5 = 20.00-13.30; c6 = 20.00 (Sat 21.00, Sun 21.30)-12.30 (Sat 14.00); c7 = 20.00 (Sun 21.00)-13.30 (Sat 14.00, Sun 13.00); c8 = 20.00 (Sun 21.30)-12.30 (Sat 13.00, Sun 12.00); c9 = 20.00 (Sun 22.00)-12.30 (Sat 13.00); c10 = 20.00 (Sun 21.00)-12.30; c11 = 20.00 (Sun 21.30)-12.30 (Sat 14.00, Sun 12.00); c12 = 20.00 (Sun 22.00)-13.00 (Sat 14.00, Sun 12.15); c13 = 20.00 (Sun 22.00)-12.30; c14 = 20.00 (Sun 22.30)-13.30 (Sat 14.30); c15 = 20.00 (Sun 22.15)-13.45 (Sat 14.30, Sun 13.30); c16 — 20.00 (Sun 22.15)-13.30 (Sat 14.30); c17 = 20.00 (Sun 22.15)-14.30 (Sun 13.30); c18 = 20.00-14.00 (Sat 14.30); c19 = 20.00-12.00; d = 20.30 (Sun 22.30)-13.00 (Sun 12.30); d1 = 20.30-12.30; e = 20.45-03.00, 06.00-12.30; f = 21.00-17.00; f2 = 21.00 (Sun 22.45)-15.00 (Sat 16.00, Sun 14.30); f3 = Mon-Fri 21.00-06.30, 09.00-14.30, Sat 21.00-15.00, Sun 22.45-14.30; g = 21.45-16.00; g1 = 21.45-15.00; g2 = 22.00-14.30; h = 21.00-15.00 (Sat 16.00); Sun 00.00-14.00.

1) **R. Kempsey Ltd,** P.O. Box 136, West Kempsey 2440. **Te:** 36. **L.P:** Mgr: G. McBrian. **N:** on the h & 21.45, 08.30. **Ann:** "2KM the twin tower st" **V,** by QSL-card. Rp.

2) **Broadc. St. 2BH,** P.O. Box 432, Broken Hill 2880. **L.P:** Mgr: H. D. Morgan. Tec. Dir: R. E. Wright. **N:** 21.30, 02.30, 08.15, 12.30. **Ann:** "R. Silver City". **V.** by QSL-card. Rp.

3) **Transcontinental Broadc. Corp. Ltd,** P.O. Box 32, Katoomba 2780. **Ann:** "Voice of the Mountains". **V.** by letter. Rp.

4) **Broadc. St. 2GB Pty. Ltd,** Box 4290, GPO, Sydney 2001. **Te:** 20360. **L.P:** Mgr: D. L. Foster. Dir. Tec: L. N. Schultz. **N:** every h on the h. **Ann:** "Number one in Sydney". **V.** by QSL-card.

5) **Richmond River B. Casters Pty. Ltd,** P.O. Box 44, Lismore 2480. **Te:** 2351. **L.P:** Mgr: P. le Brun, Dir. Tec: H. Green. **N:** 20.30, 21.30, 22.30, 02.00, 08.30, 12.00. **Ann:** "The Voice of Summerland". **V.** by letter. Rp.

6) **Cooma B. Casters Pty. Ltd,** Box 58, Cooma 2630. **Te:** 21234. **L.P:** Man. Dir: J. S. Scott. **V:** Prepared card and postage required for QSL.

7) **2UE Sydney Pty. Ltd,** 237 Miller St, No. Sydney 2060. **Te:** 92-0444. **L.P:** Man. Dir: S. P. P. Lamb. Dir. Tec: K. Greenhalgh. **N:** every 30 mins. **V.** by QSL-card. Recordings accepted.

8) **Country Broadc. Sces. Pty. Ltd,** P.O. Box 465, Orange 2800. **L.P:** Gen. Mgr: A. Ridley. **N:** on the h. **Ann:** "2GZ Central New South Wales". **V.** by letter.

9) **Broadc. St. 2KY,** Orwell St, Potts Point 2011 (Owned by the Labour Council of New South Wales). **Te:** 353051. **L.P:** Mgr: L. R. Hood. Dir. Tec: L. A. Spinner. **N:** every h on the h. **Ann:** "2KY in Centre of your Radio Dial". **V.** by QSL-card. Rp.

10) **Canberra B. Casters Pty. Ltd,** Box 163 City, Canberra 2601. **Te:** 41234. **L.P:** Mgr: P. R. Carrodus. Dir. Tec: H. T. Beazley. **N:** at 19.30 then every h. **Ann:** "2CA the Two State Station". **V.** by QSL-card.

11) **2RG B. Casters Pty. Ltd,** P.O. Box 1005, Griffith 2680. **Te:** 877. **L.P:** Mgr: W. R. Gamble. Dir. Tec: S. Savage. **N:** every h on the h 20.00-13.00 and at 20.00, 21.30, 22.30, 02.30, 08.30. **Ann:** "2RG Griffith". **V.** by letter.

12) **2MO Gunnedah Pty. Ltd,** P.O. Box 62, Gunnedah 2380. **L.P:** Mgr: L. Worms. **N:** every h on the h 20.00-12.00 and 21.30, 02.30, 08.30. **V.** by letter.

13) **Commonwealth Broadc. Corp. Pty. Ltd,** G.P.O. Box 4241, Sydney 2001. **L.P:** Gen. Mgr: L. C. Hynes. **N:** every h on the h. **V.** by letter.

14) **New England B. Casters Pty. Ltd,** P.O. Box 270, Armidale 2350. **L.P:** Mgr: R. V. Brislan.

15) **Airsales Pty. Ltd,** P.O. Box 19, Mayfield 2304. **Te:** 68311. **L.P:** Gen. Mgr: O. J. Story. **N:** half hourly. **Ann:** "First in Newcastle". **V.** by QSL-card.

16) **Riverina B. Casters (Holdings) Pty. Ltd,** 16 Fitzmaurice St, Wagga Wagga 2650. **Te:** 2124. **L.P:** Ag. Mgr: E. W. Fisher. Dir. Tec: R. Abraham. **N:** on the h and at 20.30, 21.30, 22.30, 02.30. **Ann:** "R. Riverina". **V.** by letter.

17) **Broadc. St. 2CH,** 47 York St, Sydney 2000. (Owned by N.S.W. Council of Churches operated by Amalgamated Wireless (Australia) Ltd.) **Te:** 293322. **L.P:** St. Mgr: H. R. Huntley. Dir. Tec: W. Londer. **V.** by QSL-card. Rp. Recordings accepted.

18) **Northern B. Casters Pty. Ltd,** P.O. Box 3, Inverell 2360. **Te:** 1102. **L.P:** Gen. Mgr: A. Ridley. St. Mgr: S. Ward. Dir. Tec: B. H. Mason. **N:** 21.30, 02.00, 09.00. **Ann:** "2NZ, Northern New South Wales". **V.** by letter. Rp.

19) **Grafton Broadc. Co. Ltd,** P.O. Box 276, Grafton 2460. **Te:** 964. **L.P:** Mgr: J. Stewart. Dir. Tec: W. Rowe. **N.** on the h. **V.** by letter. Recordings accepted. Rp. **Pub:** Prgr. schedule free.

20) **Western B. Casters Pty. Ltd,** P.O. Box 44, Dubbo 2830. **Te:** 3214. **L.P:** St. Mgr: R. Ferguson. Dir. Tec: M. H. Weiland. **N:** every h. **Ann:** "The st. with the Exciting sound". **V.** by QSL-card.

21) **Broadc. St. 2SM Pty. Ltd,** G.P.O. Box 4092, Sydney 2000. **Te:** 29.5381. **L.P:** Gen. Mgr: W. H. Stephenson. St. Mgr: K. O'Donohue. Dir. Tec: R. B. Blades. **V.** by QSL-card.

22) **Tamworth R. Development Co. Pty. Ltd,** P.O. Box 497, Tamworth 2340. **Te:** 59274. **L.P:** Mgr: K. Knapp. Dir. Tec: O. E. Bartle. **Ann:** "This is 2TM, Northern New South Wales". **V.** by letter. Rp. Recordings accepted.

23) **Young B. Casters Pty. Ltd,** P.O. Box 31, Young 2594. **Te:** 27. **L.P:** Mgr: J. H. Finlayson. Dir. Tec: E. Eastley. **N.** Summaries (hourly) & 21.30, 02.30, 08.30. **Ann:** "2LF, the friendly st". **V.** by QSL-card. Recordings accepted. Rp. for return of tapes only.

24) **Hunter B. Casters Pty. Ltd,** P.O. Box 680, Newcastle 2300. **Te:** 21573. **L.P:** Gen. Mgr: K. C. Robinson, Dir. Tec: A. S. Mather. **N:** hourly. **Ann:** "2NX Newcastle". Re. not wanted.

25) **Lithgow B.Casters Pty. Ltd,** P.O. Box 21, Lithgow 2790. **Te:** 3321. **L.P:** Mgr: F. Harper. Dir. Tec: A McInante. **N:** every half h. **Ann:** "Gateway to the Central West". **V.** by QSL-card. Rp.

26) **Goulburn Broadc. Co. Pty. Ltd,** P.O. Box 115, Goulburn 2580. **Te:** 21.3377. **L.P:** Mgr: D. O'Reilly. Dir. Tec: G. Sangster. **N:** every h on the h. **Ann:** "2GN, Your Southern Tablelands St". **V.** by letter. Rp.

27) **Parkes Broadc. Co. Pty. Ltd,** P.O. Box 295, Parkes 2870. **Te:** 621122. **L.P:** Mgr: N. T. Spicer. Dir. Tec: G. F. Carter. **N:** half hourly 20.00-23.00, hourly 00.00-close, also at 21.30, 08.30. **Ann:** "Voice of the Golden West". **V.** by letter Rp.

28) **R.2KO Newcastle Pty. Ltd,** P.O. Box 300, Newcastle 2300. **Te:** 23836. **L.P:** Mgr: C. J. Derwin. Dir. Tec: M. Spitzkowsky. **N:** every half h at 19.00-23.00, hourly 23.00-14.00. **Ann:** "R.2KO Newcastle". **V.** by QSL-card.

29) **Woollongong B.Casters Pty. Ltd,** Box 34, Woollongong 2500. **Te:** 2-6726. **L.P:** Mgr: W. Gibson. Dir. Tec: A. J. Yeldon. **N:** every h and half h. **Ann:** "The new WL". **V.** by card and letter for detailed and accurate reports from listeners from outside N.S.W.

30) **Tweed Radio Broadc. Co. Pty. Ltd,** P.O. Box 53, Murwillumbah 2484. **Te:** 888. **L.P:** Mgr: C. Woodland. Dir. Tec: N. D. Carpenter. **N:** every h on the h. **Ann:** "2MW Murwillumbah, the tweed and Gold Coast St". **V.** by QSL-card. Rp.

31) **Mudge Broadc. Co. Pty. Ltd,** P.O. Box 17, Mudgee 2850. **Te:** 21-777. **L.P:** Mgr: R. Camplin. Dir. Tec: J. Sullivan. **N:** every h on the h 20.00-12.00; also 20.30, 21.30, 22.30, 08.30. **Ann:** "R. Wonderful". **V.** by QSL-card.

32) **Hunter B.Casters Pty. Ltd,** 100 Bridge St, Muswellbrook. **Te:** 565. **L.P:** Mgr: S. O'Shea. Dir. Tec: A. Mather. **N:** on the h. **Ann:** "Voice of the Upper Hunter". **V.** by QSL-card. Rp.

33) **R.2BE Pty. Ltd,** P.O. Box 77, Bega 2550. **L.P:** Mgr. Dir: J. A. Kerr. **V.** by letter. Rp.

34) **Amalgamated Wireless (A'asia) Ltd,** Dean St, Albury 2640. **Te:** 213288. **L.P:** Mgr: E. J. Pattison. Dir. Tec: E. J. W. James. **Ann:** "2AY, your two state st, serving Southern New South Wales and North Eastern Victoria". **V.** by letter. Rp. Recordings accepted.

35) **Bathurst B.Casters Pty. Ltd,** 109 George St, Bathurst 2795. **Te:** 3322. **L.P:** Mgr: W. Touhey. Dir. Tec: R. Upfold. **N:** on the h. **Ann:** "Centre of the Golden West." **V.** by QSL-card.

36) **Haig-Muir Broadc. Pty. Ltd,** P.O. Box 321, Deniliquin 2710. **Te:** 1131. **L.P:** Mgr: P. N. Charley. Dir. Tec: E. Scoones. **N:** every half h 20.30-22.30, 02.30, 03.00, 03.30, 08.30. **Ann:** "2QN Deniliquin". **V.** by QSL-card. Rp.

37) **Moree Broadc. and Development Co. Ltd,** P.O. Box 131, Moree 2400. **Te:** 101. **L.P:** Mgr: R. Morrisby. Dir. Tec: R. Lasker. **N:** half-hourly 19.00-22.30, hdurly 23.00-14.00. **Ann:** "Radio 2VM". **V.** by letter.

38) **Manning Valley B.Casters Pty. Ltd,** P.O. Box 275, Taree 2430. **Te:** 1100. **L.P:** Mgr: H. McCrindle. **N:** every half h 19.30-22.30; every h 23.00-13.00. **Ann:** "Voice of the Mid North Coast". **V.** by QSL-card. Rp.

39) **Associated Broadc. Sce's Ltd,** P.O. Box 84, Warragul 3820. **Te:** 21431. **L.P:** Mgr: C. McL. Cameron. Dir. Tec: A. K. McLennan. **N:** on the h and at 02.30, 08.30. **Ann:** "3UL, Central Gippsland". **V.** by letter. Rp.

40) **Nilsens Broadc. Sce. Pty. Ltd,** 45 Bourke St, Melbourne 3000. **Te:** 63.3511. **N:** on the h and half h. **Ann:** "3UZ Melbourne". **V.** by QSL-card.
41) **Amalgamated Wireless (A'asia) Ltd,** P.O. Box 75, Bendigo 3550. **Te:** 30661. **L.P:** Mgr: A. P. Scown. Dir. Tec: W. S. Moore. **N:** on the h. **Ann:** "3BO, No. 1 in Ce. Victoria". **V.** by letter. Rp.
42) **Victorian Broadc. Network Ltd,** 37 Gray St, Hamilton 3300. **Te:** 316. **L.P:** Mgr: L. Smith. Dir. Tec: E. Cunningham. **N:** 21.30, 02.30, 08.30, 12.00. **Ann:** "R. Western" or "First for Sport". **V.** by letter.
43) **The Herald-Sun St's,** 61 Flinders Lane, Melbourne 3000. **Te:** 63-5451. **L.P:** Gen. Mgr: R. C. Crawford. Dir. Tec: E. M. Hooper. **N:** on the h. **Ann:** "3DB/3LK, the Herald-Sun Stations" **V.** by QSL-card. (3LK Lubeck relay).
44) **Colac B.Casting Co. Pty. Ltd,** 241 Murray St, Colac 3250. **Te:** 9061. **L.P:** Mgr: V. Haycroft. Dir. Tec: C. A. Cullinan. **Ann:** "Your Western District St". **V.** by letter.
45) **3KZ B.Casting Co. Pty. Ltd,** 64 Elizabeth St, Melbourne 3000. **Te:** 636311. **L.P:** Gen. Mgr: L. J. Hyle. Dir. Tec: B. Perry. **N:** on the h. **Ann:** "3KZ, Melbourne". **V.** by QSL-card. Rp. Recordings accepted.
46) **Associated Broadc. Sces. Pty. Ltd,** P.O. Box 255, Warrnambool 3280. **Te:** 8088. **L.P:** Mgr: J. Walker. Dir. Tec: S. G. Green. **Ann:** "3YB, the st. with the happiest listeners" **V.** by QSL-card. Rp.
47) **V.B.N. Ltd,** Stawell St, Sale 3850.
48) **Associated Broadc. Sces. Ltd,** P.O. Box 205, Shepparton 3630. **Te:** 9151. **L.P:** St. Mgr: E. Collings. Dir. Tec: W. Ryan. **N:** on the h. **Ann:** "3SR, Heart of Victoria".
49) **R. Melbourne 3AW,** 374 Latrobe St, Melbourne 3001. **Te:** 329666. **L.P:** Gen. Mgr: R. Fowell. Dir. Tec: R. Kinley. **N:** 21.00, 21.30, 02.30, 08.30, 14.00. **Ann:** "Radio Melbourne, 3AW". **V.** by QSL-card.
50) **Ballarat B.Casters Pty. Ltd,** Box 360 Ballarat 3350. **Te:** 2-5068. **L.P:** Gen. Mgr: E. J. W. Whykes. Dir. Tec: E. K. Ridgeway. **Ann:** "3BA Ballarat". **V.** by QSL-card. Rp.
51) **V.B.N. Ltd,** P.O. Box 504, Swan Hill 3585. **Te:** 22768. **L.P:** Mgr: H. Lithgow. Dir. Tec: B. Walsh. **Ann:** "R.3SH, the Central Voice of the Murray Valley". **V.** by QSL-card.
52) **Geelong B.Casters Pty. Ltd,** P.O. Box 176, Geelong 3220. **Te:** 9-4131. **L.P:** Man. Dir: R. A. Cook. Gen. Mgr: J. A. Morwood. Dir. Tec: J. C. Mathews. **N:** on the h. **Ann:** "3GL, Radio Geelong". **V.** by QSL-card.
53) **Effee B.Casters Pty. Ltd,** 222 Faraday St, Carlton 3126. **Te:** 34-5191. **L.P:** Mgr: R. J. Baeck. Dir. Tec: W. Chamberlain. **D. Prgr:** **N:** on the h. **V.** by QSL-card.
54) **V.B.N. Ltd,** P.O. Box 79, Maryborough 3465. **L.P:** St. Mgr: Ken J. Parker. Dir. Tec: W. D. Harper. **D. Prgr:** **N:** half hourly. **V.** by letter.
55) **Sunraysia B.Casters Pty. Ltd,** P.O. Box 539, Mildura 3500. **L.P:** St. Mgr: J. Weilandt. **V.** by letter. Rp.
56) **Melbourne B.Casters Pty. Ltd,** P.O. Box 100, Richmond 3121. **Te:** 42-0201. **L.P:** Chief Executive: A. S. Day. Dir. Tec: R. J. Biddle. **N:** on the h and half h. **Ann:** "3AK, the Voice of Television City". **V.** by QSL-card.
57) **Wangaratta Broadc. Co. Pty. Ltd,** P.O. Box 167, Wangaratta 3677. **Te:** 2051. **L.P:** Mgr: D. C. de la Rue. Dir. Tec: K. T. Gleeson. **DX-Prgr:** **"World at Your Fingertips"** Sun 12.35. **N:** half-hourly to 23.00, then hourly. **Ann:** "Voice of the North-East". **V.** by letter.
58) **Coastal B.Casters Pty. Ltd,** 38 Rankin St, Innisfail 4860. **Te:** 612277. **L.P:** Mgr: D. Beard.
59) **Far Northern Radio Tablelands Pty. Ltd,** P.O. Box 70, Jungaburra 4870. **Te:** 98. **L.P:** Mgr: F. Bellett.
60) **Labor Broadc. St. Pty. Ltd,** P.O. Box 398F, Brisbane 4001. **Cable:** Fourq. **L.P:** Mgr: L. W. Beioley. Dir. Tec: A. L. Price. **N:** 21.45, 22.45, 00.25, 02.30, 03.30, 06.00, 07.00, 12.00, 13.10, 14.00. **V.** by QSL-card.
61) **Amalgamated Wireless (A'asia) Ltd,** P.O. Box 486, Townsville 4810. **Te:** 4165. **L.P:** Mgr: K. Duncan. Dir Tec: G. S. Erickson. **Ann:** "4TO, the Townsville st". **V.** prepared card from listeners.
62) **Broadc. St. 4GR,** P.O. Box 111, Toowoomba 4350. **Te:** 2-3333. **L.P:** Mgr: R. J. Stevenson. Dir. Tec: R. H. Hildred. **Ann:** "The Modern Sound of Radio".
63) **Warwick Broadc. Co. Pty. Ltd,** P.O. Box 195, Warwick 4370. **Te:** 8. **L.P:** Mgr: W. O. Kinane. Dir. Tec: R. van Poecke. **N:** 20.45, 21.45, 22.00, 02.30, 03.00, 08.30, 09.00. **Ann:** "The South Queensland st". **V.** by letter.
64) **Charleville Broadc. Co. Ltd,** P.O. Box 84, Charleville 4470. **Te:** 221. **L.P:** Mgr: W. D. Eversen. Dir. Tec: F. W. Davidson. **Ann:** "Voice of the Far South West". **V.** by QSL-card.
65) **Ayr B.Casters Pty. Ltd,** P.O. Box 1080, Townsville 4810. **Te:** 4191. **L.P:** Mgr: G. T. Schmid. Dir. Tec: J. Oost. **N:** 20.45, 21.15, 21.45, 22.27, 02.30, 02.45, 08.30, 09.00. **Ann:** "4AY, the Voice of the North, on Tall Tower Power". **V.** by letter. Rp.
66) **Rockhampton Broadc. Co. Pty. Ltd,** P.O. Box 159, Rockhampton 4700. **Te:** 2-2541. **L.P:** Mgr: E. J. Rheuben. Dir. Tec: E. C. Semfel. **N:** 21.45 (not Sun), 22.45 (Sun), 02.15 (Sat only), 02.30 (not Sat/Sun), 09.00. **Ann:** "4RO, the Voice of Capricornia". **V.** by QSL-card and letter.
67) **Amalgamated Wireless (A'asia) Ltd,** P.O. Box 1121, Cairns 4870. **L.P:** St. Mgr: J. B. Powell.
68) **So. Queensland Broadc. Corp. Pty. Ltd,** P.O. Box 165, Ipswich 4305. **Te:** 81-2677. **L.P:** Dir. Tec: W. G. Dodd. **V.** by letter & QSL-card. Recordings accepted. Rp. only if tape is to be returned.
69) **So. Burnett Broadc. Co. Pty. Ltd,** P.O. Box 305, Kingaroy 4610. **Te:** 202. **L P:** Mgr: G. Parker. Dir. Tec: B. Whitnall. **N:** 20.00, 20.45, 21.45, 01.00, 02.30, 05.30, 06.00, 07.00, 07.45, 09.00, 11.00, 12.00. **Ann:** "4SB South Burnett". **V.** by QSL-card. Rp.
70) **Ce. Queensland Broadc. Corpo,** Box 20, Longreach 4730. **Te:** 224. **L.P:** St. Mgr: C. J. Lowney. Dir. Tec: G. Nixon. **N:** 20.03, 20.45, 21.45, 02.30, 03.30, 06.00, 09.00, 11.00. **V.** by letter. Recordings accepted.
71) **Commonwealth Broadc. Corp. (Q'ld) Ltd,** Wharf St, Brisbane 4000. **Te:** 311311. **L.P:** Mgr: M. E. W. Baker. Dir. Tec: N. J. Bishop. **N:** on the h. **V.** by letter.
72) **Maryborough Broadc. Co. Ltd,** P.O. Box 143, Maryborough 4650. **L.P:** St. Mgr: G. W. Robertson.

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73) **Gold Coast R. Broadc. Co. Pty. Ltd,** P.O. Box 174, Southport 4215. **Te:** 95555. **L. P:** Mgr: R. J. Taylor. Dir. Tec: J. L. Thomason. **V.** by letter. Rp. Recordings accepted.
74) **Brisbane Broadc. Pty,** 93 Queen St, Brisbane 4000. **Te:** 31-1381. **L.P:** Gen. Mgr: H. I. Marshall. Dir. Tec: G. Lloyd. **N:** on the h. **Ann:** "4BK Brisbane, 4AK Darling Downs". **V.** by QSL-card.
75) **Maroochy Broadc. Co. Ltd,** P.O. Box 279, Nambour 4560. **Te:** 1099. **L.P:** Gen. Mgr: P. M. Maher. Dir. Tec: W. Ryan. **N:** 20.00, 20.45, 21.05, 21.45, 00.25, 02.30, 03.30, 09.00, 11.00. **Ann:** "4NA Nambour, the Sunshine Coast St". **V.** by letter. Rp.
76) **Bundaberg B.Casters Pty. Ltd,** P.O. Box 105, Bundaberg 4670. **Te:** 2478. **L.P:** Mgr: N. McCormack. Dir. Tec: H. Clayton. **N:** 20.00, 20.45, 21.45, 02.30, 03.30, 09.00, 11.00. **Ann:** "4BU Bundaberg". **V.** by QSL-card.
77) **Gympie Broadc. Co. Ltd,** 98 Mary St, Gympie 4570. **L.P:** St. Mgr: A. H. Buzacott. **V.** by letter. Rp.
78) **No. Queensland Broadc. Corpo. Pty. Ltd,** P.O. Box 780, Mount Isa 4825. **Te:** 316. **L.P:** Mgr: G. Atthow. Dir. Tec: A. Smith. **D. Prgr: N:** 20.00, 21.45, 02.30, 03.30, 09.00, 11.00. **V.** by letter. Rp.
79) **Mackay Broadc. Scc. Pty. Ltd,** 38 Gordon St, Mackay 4740. **L.P:** Mgr: N. B. Jackson. **Ann:** "The Voice of the Barrier Reef". **V.** by QSL-card.
80) **B.Casters (Aust) Pty. Ltd,** G.P.O. Box 906M, Brisbane 4001. **Te:** 22002. **L.P:** Mgr: G. B. Lovejoy. Dir. Tec: A. Judge. **N:** hourly. **Ann:** "4BH Brisbane, Key st. of the Macquarie Broadc. Netw". **V.** by letter.
81) **Maranoa Broadc. Co. Ltd,** P.O. Box 22, Roma 4455. **Te:** 80585. **L.P:** Mgr: C. J. Taylor. **N:** 22.45 (not Sun), 02.30, 09.00. **Ann:** "This is your feature st, 4ZR". **V.** by QSL-card. Recordings accepted.
82) **River Murray Broadcasters Pty. Ltd,** P.O. Box 118, Berri 5343. **Te:** 80. **L.P:** Mgr: L. J. Bradley. Dir. Tec: H. F. Lloyd. **N:** hourly on the h. **Ann:** "The Voice of the Murray." **V.** by QSL-card.
83) **Hume B.Casters Ltd,** P.O. Box 5, No. Adelaide 5006. **L.P:** St. Mgr: J. S. Larkin. **N:** every h on the half h.
84) **Advertiser Broadc. Network,.** G.P.O. Box 392, Adelaide 5001. **Te:** 51-0425. **L.P:** Mgr: J. Sutton. Dir. Tec: J. L. Schaumloffel. **N:** on the h and half h exc. 03.30-06.30 & 15.00-19.00. **Ann:** "St. 5AD on 1310". **V.** by QSL-card. (Rel. st's: 5PI Crystal Brook, 5SE Mount Gambier, 5MU Murray Bridge.)
85) **5KA B.Casters Pty. Ltd,** G.P.O. Box 562E, No. Adelaide 5001. **Te:** 51-5511. **L.P:** Mgr: K. R. Parham. Dir. Tec: G. E. Mathews. **N:** 30 min past each h. **Ann:** "5KA City". **V.** by QSL-card. Rp.
86) **Broadc. St. 5AU,** P.O. Box 247, Port Augusta 5700. **Te:** 2941. **L.P:** Dir. Gen: K. R. Parham. Gen. Mgr: N. W. Bradley. Dir. Tec: B. E. Martin. **D. Prgr:** N: on the h. **Ann:** "The Voice of the North". V. by letter. Rp
87) **Albany B.Casters Pty. Ltd,** P.O. Box 293, Albany 6330. **Cable:** Sixva. **L.P:** St. Mgr: T. Furlong. Dir. Tec: M. Hoffman. **D. Prgr: N:** 22.00, 22.45, 23.45, 04.30, 07.30, 11.00. **V.** by letter.
88) **Whitford's Broadc. Network,** Box D187, GPO. Perth 6001. **Te:** 21-2201. **L.P:** Mgr: D. E. Muir. Dir. Tec: H. A. Taylor. **N:** every 30 min. **V.** by QSL-card (Relay st's: 6AM Northam, 6KG Kalgoorlie, 6GE Geraldton.)
89) **Nicholson's Broadc. Sce,** 340 Hay St, Perth 6000. **Te:** 233044. **L.P:** Gen. Mgr: G. C. Lewis. St. Mgr: J. A. Ashton. Mgr. 6TZ (Bunbury) & 6CI (Collie): B.P.O'Dwyer. **V.** by letter. Recordings accepted.
90) **West Australia B.Casters Pty. Ltd,** P.O. Box 1220, Perth 6001. **L.P:** Mgr: J. T. Hunn. Dir. Tec: C. H. Muhling. **N:** usually 5 min before the h. **V.** by letter. Rp. (Relay st's: 6BY, Bridgetown, 6MD Merridin, 6WB Katanning).
91) **Suntimes B.Casters Ltd,** 17-19 James St, Perth 6001. **Te:** 28-1525. **L.P:** Mgr: J. W. Hugall. Dir. Tec: K. J. Cantelo. **N:** every h on the h. **V.** by QSL-card (6KY Perth, 6NA Narrogin).
92) **No. Ea. Tasmania R.B.Casters Ltd,** P.O. Box 109, Scottsdale 7254. **L.P:** Mgr: B. Scetrine. **V.** by QSL-card.
93) **Burnie Broadc. Sce. Pty. Ltd,** P.O. Box 120, Burnie 7320. **Te:** 31-2555. **L.P:** Mgr: C. W. Nunn. Dir. Tec: T. Kirkpatrick. **V.** by letter.
94) **West Coast B.Casters Pty. Ltd,** P.O. Box 315. Queenstown 7467. **L.P:** Mgr: H. Ebrall. **V:** Reports not wanted.
95) **Comm. B.Casters Pty. Ltd,** G.P.O. Box 542F, Hobart 7001. **Te:** 80321. **L.P:** Mgr: A. B. Brown. Dir. Tec: R. M. McCarthy. **N:** every h on the h and at 20.30, 21.30, 22.30, 02.30, 03.30, 08.30. **Ann:** "R. Hobart 7HO." **V.** by QSL-card or letter. Recordings accepted.
96) **No. Tasmania B.Casters Pty. Ltd,** P.O. Box 262, Devonport 7310. **Te:** 22412. **L.P:** Mgr: M. Evans. Dir. Tec: B. Eyre. **N:** 21.45, 22.07, 02.30, 08.45, 12.00. **V.** by QSL-card. Rp.
97) **7EX Pty. Ltd,** P.O. Box 812, Launceston 7250. **Te:** 42492. **L.P:** Mgr: A. E. McGelland. Dir. Tec: R. J. Abraham. **N:** every h. **Ann:** "The Top St". **V:** Prepared card required.
98) **Metropolitan B.Casters Pty. Ltd,** G.P.O. Box 572F, Hobart 7001. **Te:** 33157. **L.P:** Mgr: J. V. Howell. Dir. Tec: F. B. Klein. **Ann:** "7HT the Heart of Hobart". **V.** by letter.
99) **Findlay & Wills B. Casters Pty. Ltd,** P.O. Box 635G, Launceston 7250. **Te:** 2-1551. **L.P:** Mgr: R. E. Ward. Dir. Tec: R. B. McLean. **N:** on the h. **Ann:** "7LA, The Number One Station". **V.** by QSL-card. Rp.
100) **Darwin B.Casters Pty. Ltd,** P.O. Box 506, Darwin 5794. **L.P:** St. Mgr: D. H. Charlton. Sen. Technician: J. Lane. **V.** by letter. Rp.

COOK ISLANDS (N.Z. Territory)

L.T: GMT − 10½ h — **Pr.L:** English, Maori.

RADIO COOK ISLANDS (Gov.)
ADDR: Rarotonga. **Te:** 100. **L.P:** Officer in Charge: T. J. Moorna. Dir. Tec: S. Kingan.
STATIONS (G.C: 159.48W/21.11S):

Call	kHz	m	kW	Call	kHz	m	kW
ZK1ZC	600	500.0	10	ZK5	5045	59.46	1
ZK3	9695	30.94	1				

HOME SCE. in English. Maori: Mon-Sat 16.30-18.30 on 600/5045kHz; Mon-Fri 21.00-23.30 on 600/9695kHz; Tues-Sat 04.30-08.40 on 600/5045kHz; Sun 04.30-07.30 on 600/5045kHz, 17.30-19.00 & 22.30-00.30 on 600/9695kHz.
N: English: 22.45, 04.32, 07.30 (rel. R. New Zealand), 07.40 (Tues), 08.15 (Thurs), 07.40 (Sat). **Maori:** 22.55, 05.30 — **ANN:** "This is R. Cook Islands" — **INT-SIG:** Cook Islands Drum Beats — **V.** by QSL-card. Rp.

FIJI (British)

L.T: GMT + 12 h — **Pr.L:** English, Fijian, Hindustani.

FIJI BROADCASTING COMMISSION
(Independent Statutory Body, 50% comm. 50% cultural).
ADDR: P.O. Box 334, Suva. **Te:** 22621. **Cable:** Broadcom — **L.P:** Chmn: D. M. N. Mc Farlane, LLB, C.B.E. Mgr: G. M. Cullen. Dep. Mgr: G. H. King. Prgr. Organiser: P. B. Sloan. Adv. Mgr: Sang Yee Joy. Dir. Tec: T. C. Agar.
STATIONS (G.C: 178.40E/18.10S) — *) Sat. 11.00 — **) Sat. only.

Location	kHz	m	kW	Languages	h. of tr.
Suva	560	535.7	10	English	18.00-10.30*
Suva	710	422.5	3	Vernaculars	18.00-10.30*
Suva	840	357.1	1	Fijian	20.00-24.00**
Lautoka	890	337.1	2.5	English/Hindu	18.00-10.30*
Singatoka	930	322.6		Alternate. prgrs.	
Lautoka	1320	227.3	2	English	18.00-10.30
Suva	3230	92.88	10	English	18.00-21.15
					03.45-10.30
	3284	91.35	10	Vernaculars	18.00-21.30
					03.30-10.30
	4756	63.08	5	Fijian	20.00-24.00**
	5955	50.38	10	Vernaculars	21.30-03.30
	6005	49.96	10	English	21.15-03.45

HOME SCE: In English, Fijian and Hindustani: 18.00-10.30 (Sat 11.00). **English: N:** 18.15, 19.00 (BBC), 19.45, 20.00 (BBC), 01.00 (R.NZ), 01.30 (R. Australia), 07.00 (BBC), 09.00 (ABC) — **Local N. in Fijian:** W 18.15, 19.45, 01.15, 07.10 — **Wrp:** 19.00, 20.00, 01.30, 07.00 — **ANN:** "This is R. Fiji". Fijian: "Oqo na R. Fiji". Hindustani: "Yeh R. Fiji Hai" — **INT-SIG:** Beat on Fijian Lali (Log Drum) — **V.** by QSL-card — **FI:** by license payments and adv — **ALF:** £ 1/5/0.

GILBERT and ELLICE ISLANDS (British Colony)

L.T: GMT + 12 h — **Pr.L:** English, Gilbertese, Ellice.
GILBERT and ELLICE ISLANDS BROADCASTING SERVICE
ADDR: Broadc. Office, Betio, Tarawa. **Cable:** Broadcasts.
L.P: Broadc. Inf. Officer: A. G. M. Slatter. Broadc. Eng: A. F. E. Robins. Asst. Broadc. Officer: S. T. Kleis.
STATIONS: VSZ-1 844kHz 355.5m 0.05kW.
VSZ-2 4912.5kHz 61.07m 2kW.
HOME SCE. in Gilbertese and Ellice: 18.45-20.00(Mon-Fri) in **English,** 07.00-07.45(D) Gilbertese, 07.45-08.30(D) Ellice, 08.30-09.20(Sun 09.20) **English.**
ANN: E: "This is the Voice of Tarawa". Gilbertese: "Kam no bane ni mauri ara taan kakau-ongo n te bakantaai aei, aio bon Banaan Tarawa". Ellice: "Talofa, katoa koutou i te fakaafiafi nei, mea nei ko te Sikungaleo a Tarawa" **INT-SIG:** Four notes gong — **V.** by form letter — **ALF:** Austr. £ 0.50.

GUAM (U.S. Territory)

L.T: GMT + 10 h — **Pr.L:** English, Chamorro, Philippine dialects.

RADIO GUAM (Pr. Comm.)
ADDR: P.O. Box 368, Agana, Guam 96910. **Cable:** Kuam. **Te:** 7961 **L.P:** Pres: H. Scott Kilgore. Vice Pres. & Gen. Mgr: W. B. Nielsen.
STATIONS: KUAM 610 kHz 10kW — FM:93.9 MHz.
HOME SCE. in English: 20.00 (Sun 21.00)-14.00 (Sat 15.00) — **N:** Every h on the h — **ANN:** "Kuam Agana, Guam" — **INT-SIG:** Voice & Jingle Form (Orchestra & Voices) — **V.** by letter and QSL-card.

HAWAII (U.S. State)

L.T: GMT − 10 h — **Pr.L:** English, Japanese, Filipino.
PRIVATE COMMERCIAL STATIONS

Call	kHz	kW	Call	kHz	kW
1) KMVI	550	1	12) KTRG	990	5
2) KGMB	590	5	13) KHVH	1040	5
3) KORL	650	10	14) KIPA	1110	1
4) KKUA	690	10	15) KLEI	1130	1
5) KUAI	720	5	16) KOHO	1170	1
6) KGU	760	10	17) KZOO	1210	1
7) KONA	790	1	18) KNDI	1270	5
8) KIKI	830	0.25	19) KNUI	1310	1
9) KIMO	850	1	20) KPOI	1380	5
10) KAIM	870	5	21) KCCN	1420	5
11) KAHU	940	10	22) KTOH	1490	1/0.25
12) KPAU	970	1	23) KUMU	1500	1

1) **Maui Publishing Co,** P.O. Box 550, Wailuku, Maui 96793. **L.P:** Gen. Mgr: R. E. Mawson. **D.Prgr:** 14.55-09.00.
2) **Pacific Broadc. Co,** Box 581, Honolulu 96809. **L.P:** Gen. Mgr: G. Erger. **D.Prgr:** 24 h. (KPAU Hilo 15.00-10.00).

3) **R. Hawaii Inc**, Box 8250, Honolulu 96815. **L.P:** Vice Pres. & Gen. Mgr: M. L. Hibdon. Dir. Tec: A Roycroft. **D.Prgr. in English. Filipino:** 24 h. **V.** by letter. Rp.
4) **Hercules Broadc. Co**, 830 Ala Moana Blvd, Honolulu 96813. **L.P:** Gen. Mgr: H. G. Fernhead. **D.Prgr:** 24 h.
5) **American Islands Broadc. Corpo**, Box 720, Eleele, Kauai 96705. **L.P:** Gen. Mgr: R. L. Gay Jr. **D.Prgr:** 15.00-10.00.
6) **Communications Hawaii Inc**, 1290 Ala Moana, Honolulu 96814. **L.P:** Vice Pres. & Gen. Mgr: J. Hawthorne. **D.Prgr:** 24 h.
7) **Maunaloa Broadc. Inc**, Box 816, Keal akekau, Kona 96754. **L.P:** Gen. Mgr: V. L. Beach. **D.Prgr:** 15.30-08.15.
8) **KIKI Ltd**, 331-D Kamani St, Honolulu 96813. **L.P:** St. Mgr: R. Hagadone. **D.Prgr:** 24 h.
9) **Garrabrant Inc**, Box 1497, Hilo 96720. **L.P:** Pres. & Gen. Mgr: H. V. Garrabrant. **D.Prgr:** 16.00-08.00.
10) **Christian Broadc. Assoc**, P.O. Box 375, Honolulu 96809. **L.P:** Gen. Mgr: E. B. Gustavson. Dir. Tec: R. Lyon. **D.Prgr:** 16.00-10.05. **V.** by letter. Rp.
11) **Royal Hawaiian Radio Inc**, P.O. Box 1007, Waipahu Oahu 96797. **L.P:** St. Mgr: H. E. Chu. Tec. Dir: R. Pearson. **D.Prgr:** 24 h. **V.** by QSL-card and letter. Recordings accepted. Rp.
12) **Hawaiian Paradise Park Corp**, 2227-A Kalakaua Ave, Honolulu 96815. **L.P:** Gen. Mgr: J. H. Russell. **D.Prgr:** 24 h.
13) **Western Telestations Inc**, 1290 Ala Moana, Honolulu 96814. **L.P:** Pres. & Gen. Mgr: L. S. Berger. Dir. Tec: D. Hunter. **D.Prgr. in English:** 24 h. **N:** Every half h. **V.** by letter.
14) **Big Island Broadc. Co**, P.O. Box 1602, Hilo 96720. **L.P:** Gen. Mgr: H. Gordon. Tec. Dir: R. W. Jaderstrom. **D.Prgr:** 15.00-10.30. **V.** by letter. Recordings accepted.
15) **Egal Radio**, 502 Kailua Rd, Kailua 96734. **L.P:** Gen. Mgr: J. Irvin. **D.Prgr:** 15.30-10.00.
16) **Cosmopolitan Broadc. Co**, 1140-A 12th Ave, Honolulu 96816. **L.P:** Gen. Mgr: H. Sato. **D.Prgr:** 14.00-10.30.
17) **Polynesian Broadc. Inc**, 250 Ward Ave, Suite 209, Honolulu 96814. **L.P:** Gen. Mgr: T. Kobayashi. **D.Prgr:** 15.00-10.00.
18) **R. St. KNDI**, P.O. Box 1516, Honolulu 96806. **L.P:** Gen. Mgr: J. T. Ownby. Dir. Tec: A. Rycroft. **D.Prgr:** 24 h. in E, Jap, Korean, Chinese, Filipino, German. **V.** by letter.
19) **KNUI Broadc. Co**, Box 1310, Makawao, Maui 96768. **L.P:** R. D. Vaught. **D.Prgr:** 15.00-08.00.
20) **KPOI Broadc. Co**, 1701 Ala Wai Blvd, Honolulu 96815. **L.P:** Gen. Mgr: T. Moffatt. **D.Prgr:** 24 h.
21) **Diamond Head Broadc. System Inc**, 150-B Puuhale Rd, Honolulu 96819. **L.P:** Gen. Mgr: L. Buskett. **D.Prgr:** 24 h.
22) **Kauai Broadc. Co**, Box 1748, Lihue, Kauai 96764. **L.P:** St. Mgr: R. L. Hagadone. **D.Prgr:** 15.00-10.00.
23) **John Hutton Corp**, 1148-12th Ave, Honolulu 96816. **L.P:** Gen. Mgr: J. Weiser. **D.Prgr:** 24 h.

LORD HOWE ISLAND (Australian Territory)

L.T: GMT + 11 h — **Pr.L:** English.

LORD HOWE ISLAND BROADC. SCE. (Gov.)
ADDR: Dept. of Civil Aviation, Lord Howe Island, NSW 2898, Australia.
STATION: 640kHz 468.8m 0.05kW — This Sce. is for the information of the residents (280 at present) as to the arrival times of aircraft & shipping. Broadcasts are made one hour before the scheduled arrival of aircraft — **V:** Reports not wanted.

NAURU ISLAND (Australian Territory)

L.T: GMT + 11 h — **Pr.L:** English.

RADIO NAURU (Gov.)
ADDR: Nauru Island.
STATION: 1320kHz 227.3m 0.13kW.
HOME SCE. in English: W 19.30-22.00, 00.00-10.00 (Sat 11.30); Sun 06.00-09.00. Relay R. Australia: Sat 00.00-07.30.

NEW HEBRIDES

L.T: GMT + 11 h — **Pr.L:** English, French, Pidgin-English.

RADIO VILA (Gov.)
ADDR: Anglo-French Condominium Adm, Vila, New Hebrides, So. Pacific — **L.P:** Dir: M. L. FitzGerald.
STATIONS (G.C: 168.33E/17.44S): YJB3 3277kHz 91.55m 1kW — YJB4 3905kHz 76.83m 0.5kW — YJB7 7260kHz 41.32m 0.5kW.
HOME SCE: Tues-Fri: 00.30-01.15 on 7260kHz, 06.15-07.00 on 3905kHz. Special broadc. may be outside above hrs. Trs at 22.00-05.00 will be on 7260kHz. between 05.00-08.00 on 3905kHz.
Refer all communications to the Director, Radio Vila, The New Hebrides Broadcasting Service, Vila, New Hebrides, South Pacific.

NEW CALEDONIA (French)

L.T: GMT + 11 h — **Pr.L:** French.

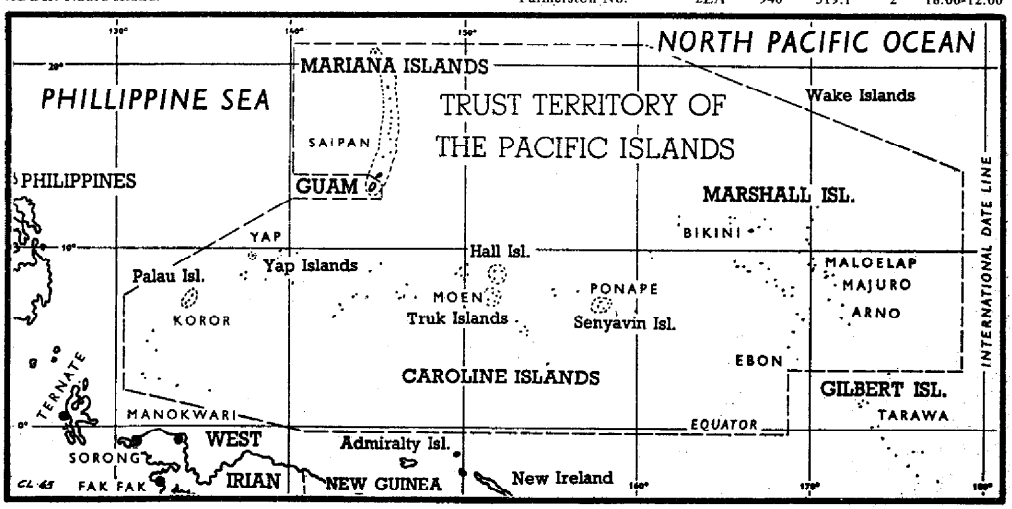
RADIO NOUMEA (Gov-ORTF)
ADDR: B.P. 327, Noumea. **Cable:** O.R.T.F. **Te:** 4327 — **L.P:** Dr. Le Leizour. Dir. Tec: G. Guesdon. Dir. N: H. de Camaret.
STATIONS (G.C: 166.26E/25.16S): 1420kHz 211m 8kW. 3355kHz 89.45m 4kW — 7170kHz 41.84m 4kW.
HOME SCE. in French, Bichelamar (Pidgin): On 1420/3355kHz: W 19.00-21.00, 23.30-02.00, 06.00-11.00; Sun 21.00-02.00, 06.00-11.00. On 7170kHz: 23.30-02.00(Sun 21.00-02.00).
N. in French: 19.30, 20.00, 20.55, 00.00, 01.00, 07.00, 07.45, 10.55 — **Wrp:** 19.30, 19.55, 00.00, 01.00, 08.00, 09.00, 10.55 —
For New Hebrides: Thurs 07.00-07.30 — **ANN:** "Ici Noumeá, Office de Radiodiff. Télévision Française" — **INT-SIG:** Call of the cagou bird — **V.** by QSL-card. Rp. Recordings accepted — **AD:** 19.00-20.00, 00.00-01.00, 01.15-01.20, 07.30-07.45.

NEW ZEALAND

L.T: GMT + 12 h — **Pr.L:** English, Maori.

NEW ZEALAND BROADCASTING CORPORATION
(Statutory Public Body)
ADDR: P.O. Box 98, Wellington. **Te:** 48.200. **Cable:** Broadserv. **L.P:** Dir. Gen: G. H. Stringer. Dir. of Eng: J. N. M. Norman. Dir. Sound Broadc: L. R. Sceats. Public Rel. Officer: L. Boyes.

	Call	kHz	m	kW	h. of tr.
Wellington	2YA	570	526.3	100	24h**
Napier	2YZ	630	476.2	20	18.00-11.20
Alexandra	4YW	640	468.8	2	24h
Wellington	2YC	660	454.5	60	05.00-11.00
Christchurch	3YA	690	434.8	20	24h
Invercargill	4YZ	720	416.7	20	18.00-11.20
Greymouth	3ZA	750	400.0	2	18.00-02.00
Auckland	1YA	760	394.7	20	24h
Dunedin	4YA	780	384.6	20	24h
Wellington	2YB	800	375.0	20	see below
Invercargill	4ZA	820	365.9	10	18.00-12.00
Whangarei	1YX	830	361.4	2	18.00-11.20
Masterton	2ZD	840	357.1	2	18.00-10.30
Rotorua	1YZ	860	348.8	10	18.00-11.20
Auckland	1YC	880	340.9	10	05.00-11.00
Dunedin	4YC	900	333.3	10	05.00-11.00
Greymouth	3YZ	920	326.1	10	18.00-11.20
Palmerston No.	2ZA	940	319.1	2	18.00-12.00



NZBC

SOLE
BROADCASTING ORGANISATION
IN
NEW ZEALAND

24 Commercial Stations
13 Non-Commercial Stations
4 Television Channels

RADIO NEW ZEALAND
THE OVERSEAS SERVICE OF THE NZBC BROADCASTS IN SHORTWAVE TO AUSTRALIA THE PACIFIC ISLANDS AND ANTARCTICA

OVERSEAS
PROGRAMME SERVICE
SUPPLIES NEW ZEALAND MUSIC AND SPOKEN-WORD PROGRAMMES FOR OVERSEAS BROADCASTING ORGANISATIONS

COMPLETE
ADVERTISING
COVERAGE OF THE
ENTIRE COUNTRY

NEW ZEALAND
BROADCASTING
CORPORATION
P.O.BOX 98,
WELLINGTON, N.Z.

	Call	kHz	m	kW	H of tr.
Christchurch	3YC	960	312.5	10	17.00-11.00
Whangarei	1ZN	970	309.3	2	05.00-11.00
Wellington	2ZB	980	306.1	20	18.00-12.00
Tauranga	1ZD	1000	300.0	10	17.00-10.30
Dunedin	4ZB	1040	288.5	10	18.00-12.00
Gisbourne	2ZG	1060	283.0	2	18.00-11.00
Auckland	1ZB	1070	280.4	10	17.00-12.00
Christchurch	3ZB	1100	272.7	10	18.00-12.00
Wellington	2ZM	1130	265.5	2	18.00-12.00
Hamilton	1YW	1140	263.2	2	18.00-11.20
Timaru	3ZC	1160	258.6	2	18.00-11.00
Gisbourne	2YW	1180	254.2	2	18.00-11.20
Wanganui	2ZW	1200	250.0	2	18.00-11.00
Kaikohe	1ZE	1220	245.9	2	17.00-11.00
Auckland	1ZM	1250	240.0	2	18.00-12.00
Napier	2ZC	1280	234.4	2	18.00-12.00
Hamilton	1ZH	1310	229.0	2	17.00-12.00
Nelson	2ZN	1340	223.9	2	18.00-11.00
Rotorua	1ZC	1350	222.2	2	17.00-10.30
New Plymouth	2ZP	1370	219.0	2	18.00-11.00
Turangi	1ZT	1390	215.8	0.1	17.00-11.20
Christchurch	3ZM	1400	214.3	2	18.00-12.00
Tokoroa	1ZO	1420	211.3	2	17.00-11.20
Dunedin	4XD	1430	209.8	0.25	
Kaitaia	1ZK	1440	208.3	2	17.00-11.00
Westport	3YW	1460	205.5	2	18.00-11.20
Taupo	1ZA	1500	200.0	2	17.00-11.20
Taumarumui	1ZU	1520	197.4	1	17.00-11.20
Blenheim	2ZF	1540	194.8	1	18.00-23.00
Hawera	2ZH	1560	192.3	1	18.00-11.00

St. 2YB is on the air only when 2YA is broadc. direct from the House of Representatives.

NEWS: On 570/630/640/690/720/760/780/830/860/920/1140/1180/1460kHz: **W:** 16.00*, 18.00*, 18.33, 19.00, 19.30, 20.00*, 20.30, 21.00, 22.31 (not Sat), 00.33, 01.15, 03.31 (not Sat), 05.00 (not Sat), 06.30*, 07.00, 09.03, 11.00*, 11.14, 14.00 (Sat only). **Sun:** 18.00*, 19.00, 19.30, 20.00*, 20.30, 21.00, 21.33, 00.33, 01.15, 06.30*, 07.00, 09.03, 11.00*, 11.14.* = BBC.

News in Maori: Sun 05.50 — **Dominion Weather:** D 17.30, 18.30, 19.14, 00.30, 04.00, 09.00, 11.17 — **Rlg:** W 22.00, Sun 23.00, 07.00 — **LL.** (French to Schools): Mon 02.45 (Feb-Aug).

NEWS: On 820/840/940/970/980/1000/1040/1060/1070/1100/1160/1200/1280/1310/1340/1350/1370kHz: **W:** 18.00*, 18.30, 19.00, 19.30, 20.00, 20.30, 21.00, 22.00, 23.00, 00.00, 00.30*, 01.00, 01.30*, 02.00*, 03.00, 04.00*, 05.00*, 06.00, 07.00, 08.00, 09.00, 11.00. **Sun:** 19.00, 20.00, 21.00, 22.00, 23.00, 00.00, 01.00, 03.00, 06.00, 07.00, 08.00, 09.00, 11.00.

FOREIGN SCE: R. New Zealand

ADDR: P.O. Box 98, Wellington. **Cable:** Broadserv. **Te:** 48-200. **L.P:** Distr. Mgr: N. J. Wade. **Reg. Engineer:** A. S. Chisholm. **Prgr. Officer:** H. W. Taylor-Smith.

STATIONS (G.C: 174.50E/41.05S): 7.5kW.

Call	kHz	m	Call	kHz	m	Call	kHz	m
ZL7	6080	49.34	ZL6	11705	25.63	ZL21	15110	19.85
ZL18	9520	31.51	ZL3	11780	25.47	ZL5	17770	16.88
ZL2	9540	31.45	ZL19	11830	25.36			

Two freq's are used simultaneously, and as the prgr. sched. is intended primarily for Australia and the Pacific Islands, the present aerials are beamed in those two directions. HS = Home Sce. Prgr's.

To Pacific Islands (Beam 30°): 17.00-19.45 on 9520/11780kHz (HS), 20.00-05.45 on 15110kHz (HS), 06.00-08.45 on 9540/11780kHz (Sun from 08.00 only on 9540kHz).

To Australia (Beam 285°): 20.00-05.45 on 17770kHz (HS), 09.00-11.45 on 9520/11705kHz.

"Calling Antarctica" (a prgr. of N, sporting review, "Family Corner" directed to N.Z. scientific personnel in the Ross Dependency): Sun 08.15-08.45 on 6080kHz.

"Calling Samoa" (in Samoan): Tues 07.20-07.50 — **"Calling the Cook Islands"** (in Rarotongan): Wed 08.10-08.30 (repeat) — **"Calling Niue Island"** (in Niuean): Fri 07.45.

New Zealand News: 00.45, 07.30, 09.00, 10.00 — **Rlg:** W (in N.Z.) 22.00, Sun (in N.Z.) 23.30 — **DX-Prgr:** (Arthur Cushen's DX World) 1st Wed in month: 06.45, 10.30, repeated following Sat 23.45 (on 15110/17770kHz). Also in all night Nat. prgr. 3rd Fri at 14.15 — **"Lookout":** Sat 09.13, Sun 06.30 — **"Point of View":** Sun 09.13, Mon 07.00 — **"Mailbox":** Fri 07.00, 09.45 — **Maori Music:** Thurs 06.45, Fri 08.15, 09.00, Sun 10.15 — **"This is N.Z.":** Sun 07.45, 10.30, Tues 08.15, 09.30 — **Prgr. Previews:** 23.40, 06.09, 08.40, 08.55, 11.40.

ANN: "This is R. New Zealand" — **INT-SIG:** Call of the N.Z. Bellbird (at 5 second intervals) — **V.** by QSL-card (sea mail). Rc. to Distr. Mgr, P.O. Box 2396, Wellington — **PUB:** "The N.Z. Listener" (Home Sce) 39sh (NZ) yearly. Prgr. schedule (free to overseas listeners) — **FI:** By licence payments & adv — **AD:** St's other than YA, YC, YZ and YW broadc. adv. on W — **ALF:** $3.00.

NIUE ISLAND (N.Z. Territory)

L.T: GMT — 11 h — **Pr.L:** Niuean, English.

NIUE BROADCASTING SERVICE (Gov.)

ADDR: Community Development Office, P.O. Box 43, Niue Island. **Cable:** "Commr" — **L.P:** Community Development Officer: H. E. Coleman.

STATION: Alofi ZK2ZN 550kHz 0.2kW.

HOME SCE: 23.00-00.30 (Mon-Fri), 05.00-08.50 (Mon-Sat) — **Listeners Requests:** Mon 06.30.

ANN: E: "This is Radio Niue, Station ZK2ZN, broadcasting on 550 kc". Niuean: "Letio Niue ha ne" — **V.** by letter. Recordings accepted. Rp. preferred.

NORFOLK ISLAND (Austr. Terr.)

L.T: GMT + 11½ h — **Pr.L:** English.

NORFOLK ISLAND BROADCASTING SERVICE (Gov.)
Owned by the Norfolk Island Adm. and under the technical direction of the Dept. of Civil Aviation — **ADDR:** Norfolk Island Administration, Kingston — **L.P:** Broadc. Officer: Miss L. Bataille. Official Secr: J. G. Cowap.
STATION (G.C: 167.56E/29.03S): VL2NI 1570kHz 0.05kW.
HOME SCE. in English: Mon, Tues, Thurs, Fri 20.30-22.00 (local N & rlg. Sce), Wed 20.30-00.30 (Musical requests at 23.30 & rlg. Sce), Sat 01.30-02.00 & Sun 00.00-00.30 (Music & Aircraft movement) — **ANN:** "Norfolk Island Broadc. Sce, St. VL2NI" — **V.** by letter. Rp.

PAPUA and NEW GUINEA

(Australian Territory of Papua and Trust Territory of New Guinea)
L.T: GMT + 10 h — **Pr.L:** English, Melanesian Pidgin, Police Motu, Vernaculars.

DEPARTMENT OF INFORMATION & EXTENSION SERVICES
Konedobu (Head Office for all St's). **Cable:** "Adcast". **Te:** 4681. **L.P:** Dir: L. R. Newby. Dir. Tec: W. F. Carter.

RADIO RABAUL (Gov)
ADDR: Adm. Broadc. St, P.O. Box 71, Rabaul. **Te:** 2700. **Cable:** Adcast. **L.P:** St. Mgr: I. Smeeton. Sen. Tec. Dirs: P. Cook & M. O'Sullivan.
STATION (G.C: 152.11E/04.12S): VL9BR 3385kHz 88.63 m 10kW.
HOME SCE: 20.00-22.00, 06.00-13.00. **N: English:** 08.00, 10.00. **Tolai:** 08.10, 10.10, 10.35. **Pidgin:** 09.05, 10.05, 11.35, 12.05. **Wrp & Shipping Inf (in Pidgin):** 08.50 — **ANN:** E: "This is R. Rabaul, Station VL9BR". Tolai: "Ava valavala Ongore R. Rabaul VL9BR". Pidgin: "Yupela wok lang harim R. Rabaul VL9BR, Stesin Bilong Yumi" — **V.** by letter. Recordings accepted.

RADIO WEWAK (Gov)
ADDR: P.O. Box 65, Wewak. **Te:** 98. **Cable:** "Adcast" — **L.P:** St. Mgr: P. B. Bird. Supervising Technician: J. Whittaker.
STATION (G.C: 143.40E/03.35S): VL9CD 3335kHz 89.96m 10kW.
HOME SCE. in English & Melanesian Pidgin: 20.00-22.00 (Sun 23.00), 06.15 (Sat/Sun 03.15)-12.30. **N. in English:** 08.00 (Mon-Fri), 09.00 (Sat/Sun only), 10.00 (Mon-Fri) — **ANN:** "Adm. Broadc. St. R. Wewak" — **V.** by letter. Recordings accepted.

RADIO KERAMA (Gov)
ADDR: Adm. Broadc. St, Kerema. **Cable:** "Adcast". **L.P:** St. Mgr: B. R. Perkins.
STATION: VL8BK 3245kHz 92.45m 0.25kW.
HOME SCE. in English, Vernaculars: 07.00-12.00.
N. in English: 08.00, 10.00 (Mon-Fri), 09.00 (Sat/Sun only).
N. in Vernaculars: 08.30, 09.00, 10.25, 10.35, 11.00 (Mon-Fri). — **V.** by QSL-card or letter.

RADIO WESTERN DISTRICT (Gov)
ADDR: P.O. Box 9, Daru, Western District. **Te:** 62. **Cable:** "Adcast" — **L.P:** Officer in charge: Mgr: R. J. Hosking. Technician in charge: B. Hyde.
STATION (G.C: 143.12E/9.07S): VL8BD 3305kHz 90.80m 10kW.
HOME SCE. in Police Motu, Kiwai, English: 06.00-12.30. **N:** Mon-Fri 08.00, 08.15, 09.15, 10.00, 11.20; Sat 09.00, Sun 10.00 — **ANN:** E: "R. Western District, st. VL8BD broadc. from Daru Isl. in Papua". Police Motu: "Inai station be Western District Taunimanima ibounai edia" — **INT-SIG:** Native Drumming — **V.** by QSL-card.

RADIO GOROKA (Gov.)
ADDR: Adm. Broadc. St, P.O. Box 146, Goroka. **Te:** 218. **Cable:** "Adcast" — **L.P:** St. Mgr: S. M. Piniau. Supervising Technician: J. Wright.
STATION (G.C: 145.23E/06.04S): VL9CG 2410kHz 124.5m 0.25kW.
HOME SCE. in Pidgin, English, Gahuku: 07.45-12.00.
N: 08.00 (English), 08.45 (Pidgin, 09.15 (Gahuku), 10.00 (English & Pidgin), 10.30 (Pidgin) — **ANN:** E: "R. Goroka st. VL9CG"; Pidgin: "Stesin bilong yumi" — **V.** by QSL-card. Re. welcomed — **PUB:** pamphlets available on limited basis.

RADIO MOUNT HAGEN (Gov)
ADDR: Mount Hagen, Western Highlands District. **Te:** 177. **Cable:** "Adcast" — **L.P:** St. Mgr: K. G. Burslem. Supervising Technician: N. Casey.
STATION (G.C: 144.14E/05.51S): VL9CH 2450kHz 122.5m 0.25kW.
HOME SCE. in English, Pidgin, Enga, Medlpa, Mid-Wahgi: 07.30-11.30
N: Mon-Fri 08.35 (Medlpa/Pidgin), 08.45 (Enga), 09.20 (Mid-Wahgi). **Territory N:** Sat/Sun 08.30 (in Pidgin only), Sun 09.15 World N. in Pidgin (ABC relay) — **V.** by data sheet. Recordings accepted.

RADIO BOUGAINVILLE
ADDR: Kieta, Bougainville, No. Solomon Islands. **Cable:** "Adcast" — **L.P:** St Mgr: G. N. Heard. Dir. Tec: T. Gware.
STATION: VL9BA 3322kHz 90.30m 2kW.
HOME SCE. in English & Pidgin: N: 08.30 (Mon-Fri), 10.00 (Mon-Fri), 09.15 (Sun) — **Request Prgrs** (Pidgin): 09.00-10.00 (Mon-Fri) — **Listeners News** (Pidgin): 10.30 (Mon-Fri) — **INT-SIG:** Bamboo Flutes — **ANN:** "This is R. Bougainville, VL9BA, broadcasting from Kieta" — **V.** by QSL-card — **F.PI:** Increase of broadc. time to 17.00-20.00 & 07.00-12.00.

RADIO MILNE BAY
ADDR: P.O. Box 6, Samarai, Milne Bay — **L.P:** St. Mgr: J. H. Smeeton.
Station VL8AS 3235 kHz 92.74m 0.25kW.
HOME SCE. in English & Pidgin: D 17.00-20.00, 07.00-12.00.
ABC: see Australia.

SAMOA (American)

L.T: GMT − 11 h — **Pr.L:** Samoan, English.

RADIO STATION WVUV (Gov.)
ADDR: Office of Samoan Information, Pago Pago. **Te:** 648 — **L.P:** St. Mgr: V. W. Williams. Dir. Tec: R. Ware.
STATION: WVUV 1120kHz 10kW.
HOME SCE: 18.00-24.00, 05.00-09.30. **N. English:** Mon-Fri 18.30, Tues-Sat 05.45, 09.15; Sat 22.00, 23.00, 24.00. **Samoan:** Mon-Fri 19.45-06.30, 07.30 — **Samoan Music:** 06.30 — **ANN:** E: "This is st. WVUV, Pago Pago, American Samoa" — **V.** by letter.

SAMOA (Western)

L.T: GMT − 11 h — **Pr.L:** Samoan, English.

SAMOA BROADCASTING SERVICE 2AP (Gov, Comm)
ADDR: P.O. Box 200, Apia. **Te:** 2. **Cable:** Voxpac — **L.P:** Dir: J. W. Moore, Prgr. Supervisor: L. Levi. Chief Eng: J. K. Brown.
STATION: 2AP Apia 1420kHz 211.3m 10kW.
HOME SCE. in English/Samoan: Mon-Fri 17.00-20.15, 23.00-00.30, 04.30-09.30; Sat 17.00-00.30, 04.30-09.30; Sun 20.00-01.30, 05.00-09.30. **English:** 05.00-06.30 (Mon-Sat). **Bilingual:** 17.00-20.15 (W), 17.00-01.30 (Sat/Sun). **Samoan only:** 06.30-09.30 (Mon-Sat) — **N. in English:** W 18.00, 20.00, 23.30, 24.00. Sun 20.00, 23.30, 24.00 (from ABC or BBC). **N. in Samoan:** W 07.30, Sun 06.15.
ANN: E: "2AP, Apia, The Samoa Broadc. Service". Samoan: "Ole Si' ufofoga Lenei o Samoa i Sisifo, Ole 2AP i Apia". (The Voice of Western Samoa, 2AP Apia) — **V.** by QSL-card. Recordings accepted. Rp. — **INT-SIG:** Gong — **F.PL:** English Prgr's on 1150kHz (0.3kW), Nat Prgr. (exp) 05.30-08.30 — **FI:** By Gov. appropriation & adv — **AD:** 17.00-19.00, 05.00-09.30 mainly spots in English, Samoan.

SOLOMON ISLANDS (British)

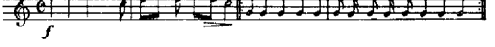
L.T: GMT + 11 h — **Pr.L:** English, Pidgin-English.

SOLOMON ISLANDS BROADCASTING SERVICE (Gov, Comm.)
ADDR: S.I.B.S., Honiara. **Te:** 425. **Cable:** Broadcast — **L.P:** Broadc. Officer: B. J. Whitehall. Ass. Broadc. Officer: W. Bennett, M.B.E. Dir. Tec: P. Butler. Sen. Producer: B. D. Strong.
STATIONS (G.C: 160.0E/09.00S): VQO 1030kHz 291m 0.66kW.
VQO4 3995kHz 75.09m 5kW.
HOME SCE: 19.00-22.00 & 01.00-03.00 (Mon-Sat), 07.30-11.30 (daily) — **N. in English:** 19.30, 20.00 (BBC), 20.09, 20.45 (ABC), 02.30 (ABC), 09,00, 11.00 (BBC) **N. in Pidgin/English:** 08.00 — **For Schools:** 22.00-01.00 (Mon-Fri) & 06.45-07.30 (Mon-Sat).
ANN: "This is the Solomon Islands Broadc. Sce".
INT-SIG: Drum and Pan Pipes — **V.** by QSL-card. Re. must contain details to establish authenticity. Recordings accepted — **PUB:** "Preview" prgr-schedule free — **FI:** By Gov. & Licence payments, adv — **AD:** Mon-Fri 19.00-21.30, 17.30-11.00, Sat 08.00-11.00 — **ALF:** $A 2,—

TAHITI (French)

L.T: GMT − 10 h — **Pr.L:** French, Tahitian.

RADIO TAHITI (Gov)
ADDR: Rue Dumont d'Urville 410, Papeete. **Te:** 1551. **Cable:** R. Tahiti — **L.P:** Dir. M. Espinasse. Dir. Tec: A Vasseur.
STATIONS (4kW): 1400kHz 214m 6135kHz 48.90m 11825kHz 25.37m.
HOME SCE: W 16.15-18.15, 21.00-23.30, 03.00-08.00; Sun 20.00-23.00, 03.00-08.00 (on all freq's).
French: W 16.15-18.15, 21.45-23.30; Sun 05.00-08.00. **N:** W 16.15, 16.40, 18.00, 22.15, 06.00, 08.00. Sun 21.40, 06.00 — **Tahitian:** W 21.00-21.45, 03.00-05.00. Sun 03.00-05.00. **N:** 21.30 (W), 04.00 (W) — **Bilingual:** Sun 20.00-23.00.
Although times are GMT, calender days apply to Tahiti only.
ANN: F: "Ici Tahiti Office de Radiodiffusion-Télévision Française". Tahitian: "O Radio Tahiti" — **INT-SIG:** Tahitian flute (vivo) and drums — **AD:** D 21.45, 03.45.

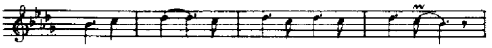


TONGA (Kingdom of)

L.T: GMT + 13 h — **Pr.L:** Samoan, Fijian, Tongan, English.

TONGA BROADCASTING COMMISSION (Gov.)
ADDR: P.O. Box 36, Nuku'alofa. **Cable:** Broadcom. **Te:** 105. **L.P:** Mgr: A. E. F. Sanft. St Eng: M. Holmes-Libbis.
STATION: 1020kHz 10kW (G.C: 174.30W/21.30S).
HOME SCE. in Tongan, English: 18.00-21.00, 23.00-01.00, 05.30-10.00 — **N. in Tongan:** 19.00, 06.15. **N. in English:** 18.00 (BBC), 19.00 (ABC), 00.15 (NZBC), 07.00 (ABC). **Samoan:** Tues, Thurs 09.00. **Fijian:** Fri 09.00 — **Wrp** (for Tonga, Niue, Samoa, Fiji): At end of N. and 19.15 — **Tongan Music:** 18.30, 19.30, 06.00, 06.30 — **Overseas Musical Prgr:** 07.00-10.00 — **Pacific Requests:** Mon 07.30-10.00 (Samoan, Fijian, Tongan, English).
ANN: E: "This is the Call of the Friendly Islands ZC0 Nuku'alofa of the Tonga Broadc. Commission". Tongan: "Ko e Ui 'eni'a e 'Otu Felenite, mei he ZC0 Nuku'alofa 'a e Komisoni Fakamafola Lea Tonga". Samoan: "O le siu fofoga leni o le otu motu o Tonga,

ZCO Nuku'alofa o le Komesinio Faasalalaunga o Tonga" — **INT-SIG:** Tongan Nose Flute — **V.** by QSL-card. Recordings accepted.
FI: By Gov. and revenue from adv.



TRUST TERRITORY OF THE PACIFIC ISL. (Micronesia)

(Mariana Islands (exc. Guam), Caroline Islands, Marshall Islands.) **L.T:** Marshalls GMT + 12 h, Ponape GMT + 11 h; Truk, Yap, Marianas GMT + 10 h; Palau GMT + 9 h — **Pr.L:** English, Ponapean, Chamorro, Palauan, Trukese, Marchallese, Yapese.
ADDR: Head Office: High Commissioner, Trust Territory of the Pacific Islands, Saipan, Mariana Islands 96950. — **L.P:** Dir. of Broadc: J. T. Lely. Com/Public Affairs: N. Neiman Craley Jr. Studios: Ponape, Eastern Caroline Isl. 96941 (WSZD). St. Mgr: C. Thomas; Truk, Eastern Caroline Isl. 96942 (WSZC). St. Mgr: K. Peter; Saipan, Mariana Isl. 96950 (KJQR). St. Mgr: F. Rabauliman; Palau District, Koror, Western Caroline Isl. 96940 (WSZB). St. Mgr: H. Rodas; Marshall Isl. District, Majuro, Marshall Isl. 96960 (WSZO), St. Mgr: S. Jordan; Yap District, Eastern Caroline Isl. 96943 (WSZA). St. Mgr: A. Yug.
STATIONS:

Location	Call	kHz	kW	H. of tr.
Ponape	WSZD	1450	1	19.00-13.00
Truk	WSZC	1500	1	20.00-14.00
Saipan	KJQR	1350	1	20.00-14.00
Koror	WSZB	1500	1	21.00-15.00
Majuro	WSZO	1440	1	18.00-12.00
Yap	WSZA	1480	1	20.00-14.00

G.C: Ponape 157E/7N, Truk 151E/7N, Saipan 144E/16N, Koror 133E/7N, Majuro 170E/7N, Yap 137E/10N.
Prgr's: Education and entertainment. **English:** varies between stations.
ANN: Ponape: "This is R. St. WSZD, Ponape — Met. St. WSZD Nam Ponape". Truk: "This is R. St. WSZC in Moen Truk — Ach nenien appio WSZC non nomun Truk". Saipan: "This is R. St. KJQR Saipan". Koror: "This is R. St. WSZB, Koror, Palau". Majuro: " This is R. St. WSZO Majuro". Yap: "This is R. St. Yap" — **V.** by letter (all st's). **F.PL:** WSZO 10kW, WSZD 10kW, WSZC 5kW in 1969 or 1970.

NORTH AMERICA

BERMUDA (British)

L.T: GMT — 4 h — **Pr.L:** English.

BERMUDA BROADCASTING CO. LTD. (Comm.)

ADDR: Box 452, Hamilton. **Te:** 2-1122. **Cable:** ZBM Bermuda.
L.P: Man. Dir: W. Staskow. Gen. Mgr: Q. Edness. Dir. Tec: J. H. Spershott. Asst. Mgr: K. Blake Ennis.
STATIONS (1kW): ZBM1 1235kHz—ZBM2 1340kHz—FM: 89.1 MHz.
HOME SCE. in English: On 1235kHz: 24 h—On 1340kHz: 24 h **N, Wrp:** 10.55, 11.45, 13.00, 15.00, 16.45, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.05, 03.30, 04.00, 04.30, 05.00—**Portuguese:** 09.45-10.15 on 1235kc.
ANN: "This is ZBM Radio Bermuda"—**V.** By QSL-card. Rp. Recordings accepted.

CAPITAL BROADCASTING CO. LTD.

ADDR: Box 652, Hamilton. **Te:** 2444. **Cable:** Capbro—**L.P:** Man. Dir: M. E. Sheppard Dir Tec: B. J. Roche. Prgr Mgr: Mrs. M. Butterfield—**STATION:** 960kHz 1kW.
HOME SCE. in English: 24 h—**N:** 10.55*, 11.30, 12.25, 13.30*, 14.30, 16.15*, 16.30, 17.25*, 20.55*, 22.15*, 22.45, 02.55, 06.00, 08.00. * = Headlines—**ANN:** "This your favourite R. Station ZFB1 960 on your dial"—**V.** by letter—**PUB:** Prgr. schedule on request.

CANADA

L.T: See Time Table — **Pr.L:** English, French.
Abbreviations: Nfld = Newfoundland; NS = Nova Scotia; PEI = Prince Edward Isl; NB = N. Brunswick; P = Pacific; Que = Quebec; Ont. = Ontario; Man. = Manitoba; Sask. = Saskatchewan; Alta. = Alberta; BC = British Columbia; NWT = No.W.Territories; Lab. = Labrador; YT = Yukon Territory.

CANADIAN BROADCASTING CORPORATION

ADDR: Head Office: P.O. Box 478, Terminal "A" Ottawa.
Cable: Broadcast. **Telex:** 013260. **Te:** 731-3111. **English Networks Div:** P.O. Box 500, Toronto. **Cable:** Broadcast. **Telex:** 022763. **Te:** 925-3311. **French Networks Div:** P.O. Box 6000, Montreal. **Cable:** Radcan. **Telex:** 012288. **Te:** 868-3211. **Engineering Headquarters:** 7925 Cote St. Luc Road, Montreal.
Offices Outside Canada: CBC Representatives: **New York:** 34th Floor, 245 Park Ave, New York, N.Y. 10017, USA. **London:** 49-51 Great Titchfield St, London W.1, England. **Paris:** 17 Ave. Matignon, Paris 8, France (Liaison Office). **Rome:** Stanza 501, RAI, Via del Babuino 9, 00187 Rome, Italy.
L.P: Head Office: Pres: G. F. Davidson; Vice-Pres: L. A. Picard; Vice-Pres. Planning & Asst. Chief Operating Officer: J. P. Gilmore; Vice-Pres. & Gen. Mgr. Reg. Broadc: Ch. Jennings; Vice-Pres. Corporate Affairs: R. C. Fraser; Vice-Pres, Programming: M. Ouimet; Vice-Pres, Adm: G. Coderre; Vice-Pres, Finance: V. F. Davies; Vice-Pres, Engineering: J. E. Hayes; Dir-Gen. External Sce's Div: H. G. Walker; Gen. Counsel: J. Alleyn; Dir. Overseas & Foreign Rel: Miss B. Zimmerman
English Netw. Division: Vice-Pres. & Gen. Mgr: E. S. Hallman; Dir. N. & Public Affairs (Radio & TV): M. L. Munroe; Div. Eng: G. H. Jones; Dir. Radio: J. T. Craine; Ag. Prgr. Dir, Radio: A. Brown; Supvr. Overseas & Foreign Rel: P. Boswell.
French Netw. Division: Vice-Pres. & Gen. Mgr: R. David; Dir. N. & Public Affairs (Radio & TV): vacant; Div. Eng: M. Morais; Dir. Radio: F. Guerard; Prgr. Dir. Radio: A. Boisvert; Supvr. Overseas & Foreign Rel: L. Hébert.
CBC Representatives: Paris: J. St. Georges; London: F. Mutrie; New York and United Nations: Miss D. McCullum.

ENGLISH NETWORK ° — **also on Shortwave.**

Call	kHz	kW	Call	kHz	kW
1) CBT	540	10	14) CBW	990	50
2) CBK	540	50	15) CBR	1010	50
3) CFWH	570	1	16) CBA	1070	50
4) CBN	°640	10	17) CBD	1110	10
5) CBU	°690	10	18) CBI	1140	10
6) CBL	740	50	19) CFFB	1200	0.04
7) CBX	740	50	20) CHFC	1230	0.25
8) CBH	860	10	21) CFGB	1340	1
9) CFPR	860	10	22) CFYK	1340	1
10) CHAK	860	1	23) CBG	1450	0.25
11) CBO	910	5	24) CBZ	970	10
12) CBM	940	50	25) CBE	1550	10
13) CBY	990	10			

1) High St. & Mill Rd, Grand Falls, Nfld. — 2) 1840 McIntyre St, Regina, Sask. — 3) P.O. Box 730, Whitehorse, Y.T. — 4) P.O. Box 5490, St. John's, Nfld. — 5) 747 Bute St, Vancouver, BC. — 6) P.O. Box 500, Toronto, Ont. — 7) P.O. Box 555, Edmonton, Alta. — 8) P.O. Box 3000, Halifax, N.S. — 9) 343 W. 2nd Ave, Prince Rupert, B.C. 10) P.O. Box 1220, Inuvik, N.W.T. — 11) P.O. Box 3220, Station "C" Ottawa, Ont. — 12) P.O. Box 6000, Montreal, Que. — 13) P.O. Box 610, Corner Brook, Nfld. — 14) P.O. Box 160, Winnipeg, Man. 15) 1724 Westmount Blvd, Calgary, Alta. — 16) P.O. Box 1220, Sackville, N.B. — 17) St. John, N.B. — 18) P.O. Box 700 Sydney, N.S. 19) P.O. Box 490, Frobisher Bay, N.W.T. — 20) Fort Churchill, Man. — 21) P.O. Box 490, Goose Bay, Lab. — 22) P.O. Box 160, Yellowknife, N.W.T. — 23) P.O. Box 790, Gander, Nfld. — 24) P.O. Box 1538, Fredericton, N.B. — 25) Security Bldg University & Pelissier, Windsor, Ont. + 150 low power relay st's not mentioned.
Short Waves:
4) CKZN 6160kHz 48.70m 0.3kW: 11.00-04.00 (Relay CBN).
5) CKZU 6160kHz 48.70m 0.5kW: 14.00 (Sun 15.00)-09.05 (Relay CBU)
Note: Although times are in GMT, calendar days apply to Canada only.
4) **N:** 11.00, 11.30, 13.00*, 14.25 (not Sat), 15.30 (BBC), 17.00, 19.00 (not Sat), 20.30 (Sat only), 21.30, 22.30*, 23.15, 02.00*, 03.30. Sun: 11.00, 12.00, 15.45, 17.00 (BBC), 18.00*, 20.00*, 22.00, 02.00*, 04.00 * = CBC Nat. News — **Wrp:** after N. at 11.00, 15.45 (Sun), 17.00 (Sat), 22.30.
5) **N:** Mon-Fri 14.00, 15.00, 15.30, 16.00, 16.15, 16.27, 17.00 (BBC), 20.15, 22.20, 00.00, 01.30, 06.00, 09.00; Sat 14.00, 15.00, 15.30, 16.00, 16.27, 17.00 (BBC), 18.00, 09.00; Sun 17.00 (BBC), 03.00, 08.00, 09.00
Wrp: after N. at 20.15 (Mon-Fri).
FM: CBU-FM (Vancouver) 105.7MHz 100kW (stereo), CBL-FM (Toronto) 94.1MHz 11.9kW, CBM-FM (Montreal) 100.7MHz 24.6kW, CBO-FM (Ottawa) 103.3MHz 0.38kW, CBW-FM (Winnipeg) 98.3 MHz 354kW (Stereo).
Affiliated st's (privately owned): 55.

FRENCH NETWORK

Call	MHz	kW	Call	MHz	kW
1) CBAF	1300	5	4) CBJ	1580	10
2) CBV	980	5	5) CBOF	1250	10
3) CBF	690	50	6) CJBC	860	50

1) P.O. Box 950, Moncton, N.B. — 2) Palais Montcalm, Que. 3) P.O. Box 6000, Montreal, Que — 4) 121 rue Racine Est, Chicoutimi, Que — 5) P.O. Box 3220, Ottawa Ont — 6) P.O. Box 500, Toronto, Ont.
+ 34 low-power stations not mentioned.
FM: CBF-FM (Montreal) 95.1MHz 24.6kW, CBFL-FM (Maniwaki) 98.9MHz 0.058kW, CBUF-FM (Vancouver) 97.7MHz 50kW (stereo)
Affiliated st's (privately owned): 27.

INTERNATIONAL SERVICE (Publicly-owned)

ADDR: Canadian Broadcasting Corporation, International Service, P.O. Box 6000, Montreal. **Cable:** Intrad.
L.P: Dir: C. R. Delafield. Supervisor of Sections: A. L. Pidgeon. Supervisor of Eng. Sce: S. B. Duke. Supervisor of Inf. Sce's: G. Teffaine. Public Rel. Officer: K. D. Renner. Coordinator of Transcription Sces: G. Poupart. Head of Programming: G. Arthur. Heads of Sections: English: P. A Tallman. French: Lucien Coté. Latin American: P. Marcos Bilbao. German: G. P. Pick. Czechoslovakian: W. Schmolka. Polish: T. Spynicwski. Russian: C. Chipman. Hungarian: J. Mezei. Ukrainian: B. Wesolowsky. Supervisor of TV Prod: G. Defanoe.
STATIONS: All international sw. broadcasts from Canada are directed by CBC International Service, which is owned by the people of Canada. All prgr's are sent by landline from Montreal to Sackville, New Brunswick, on Canada's Atlantic coast, whence they are transmitted by three 50kW tr's. (G.C: 64.19W/45.53N).

kHz	m	kHz	m	kHz	m	kHz	m
5970	50.25	9630	31.15	11945	25.12	15325	19.58
5990	50.08	11720	25.60	15190	19.75	17820	16.84
9625	31.17	11725	25.59	15320	19.58	21595	13.89

NORTH AMERICA
GREENLAND
1:40 Mill.
KM
0
500
1000
1500
Arctic Ocean
Baffin Bay
Davis Strait
Denmark Strait
Hudson Bay
GREENLAND
ICELAND
THULE
UPERNAVIK
ANGMAGSSALIK
GODHAVN
KOOK
GODTHÅB
FREDERIKSHÅB
Baffin Isl.
ALASKA
FAIRBANKS
DAWSON
CORDOVA
Yukon
WHITEHORSE
IMUVIK
North West Territories
YELLOW-KNIFE
HAY RIVER
FORT SMITH
NELSON
CHURCHILL
KOVIK
Labrador
SCHEFFERVILLE
GOOSE BAY
GRAND FALLS
GANDER
ST. JOHN'S
ST. PIERRE
Newfoundland
SYDNEY
SACKVILLE
HALIFAX
SAINT JOHN
Maine
DRUMMONDVILLE
WOODSTOCK
MONCTON
Quebec
British Columbia
Alberta
CANADA
Saskatchewan
Manitoba
NORTH PACIFIC OCEAN
EDMONTON
PRINCE ALBERT
KAMLOOPS
VANCOUVER
KELOWNA
CALGARY
SASKATOON
WATROUS
REGINA
VICTORIA
SEATTLE
MEDICINE HAT
LETHBRIDGE
BRANDON
WINNIPEG
Ontario
TIMMINS
CHICOUTIMI
QUEBEC
TROIS RIVIERES
VERCHERES
MONTREAL
PORT ARTHUR
FORT WILLIAM
SUDBURY
OTTAWA
Washington
SPOKANE
PORTLAND
Montana
N. Dakota
Minnesota
ST. PAUL
Michigan
TORONTO
New York
SCHENECTADY
BOSTON
Massachusetts
Connecticut
Oregon
Idaho
MINNEAPOLIS
Wisconsin
LONDON
DETROIT
BUFFALO
NEW YORK
BOUND BROOK
PHILADELPHIA
Delaware
Wyoming
S. Dakota
WATERLOO
Iowa
Pennsylvania
PITTSBURGH
Nebraska
CHICAGO
Ohio
WASHINGTON
Maryland
SACRAMENTO
DIXON
Nevada
SALT LAKE CITY
Utah
DENVER
OMAHA
DESMOINES
Illinois
Indiana
INDIANAPOLIS
CINCINNATI
W. Virginia
SAN FRANCISCO
California
UNITED STATES
K. CITY
RICHMOND
PEMBROKE
Bermuda
FRESNO
DELANO
Colorado
LAWRENCE
ST. LOUIS
LOUISVILLE
Kentucky
RALEIGH
N. Carolina
HOLLYWOOD
LOS ANGELES
Kansas
TULSA
Missouri
NASHVILLE
Tennessee
CHARLOTTE
S. Carolina
Arizona
ALBUQUERQUE
New Mexico
OKLAHOMA CITY
Oklahoma
Arkansas
MEMPHIS
LITTLE ROCK
ATLANTA
TIJUANA
MEXICALI
ENSENADA
DALLAS
BIRMINGHAM
Alabama
Georgia
NORTH ATLANTIC OCEAN
CIUDAD JUAREZ
FORT WORTH
SHREVEPORT
Texas
Louisiana
HERMOSILLO
SAN ANTONIO
CHIHUAHUA
HOUSTON
NEW ORLEANS
Florida
NASSAU
CIUDAD OBREGON
PIEDRAS NEGRAS
CORPUS CHRISTI
MIAMI
Bahama Islands
NUEVO LAREDO
SABINAS
RIO BRAVO
GULF OF MEXICO
TORREON
REYNOSA
COLON
PUERTO PLATA
CAP HAITIEN
PUERTO RICO
LA PAZ
CULIACAN
MONTERREY
SALTILLO
ROSARIO
ZACATECAS
CUBA
MEXICO
TAMPICO
S. LUIS POTOSI
SANTIAGO DE CUBA
DOMINICAN REP.
GUADALAJARA
LEON
IRAPUATO
MERIDA
KINGSTON
HAITI
ZAMORA
MORELIA
MEXICO CITY
JAMAICA
URUAPAN
JALAPA
VERA CRUZ
West Indies
PUEBLA
ORIZABA
VILLA HERMOSA
BELIZE
BR. HONDURAS
ZITACUARO
TUXTLA GTRREZ
CARIBBEAN SEA
OAXACA
ACAPULCO
CENTRAL AMERICA
BARRANQUILLA
CARTAGENA
MARACAIBO
TRUJILLO
BLUE FIELDS
COLON
LIMON
VENEZUELA
SANTIAGO
PANAMA
COLOMBIA
MEDELLIN
70°
60°
50°
40°
30°
20°
10°
0°
120°
110°
100°
90°
80°

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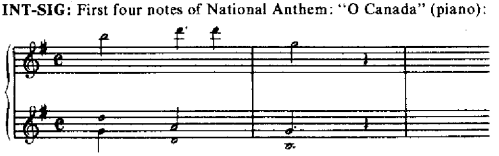
INTERNATIONAL SERVICE
CANADIAN BROADCASTING CORPORATION
BOX 6000, MONTREAL, CANADA.

EUROPEAN SERVICE: 05.58-06.30, 07.10-08.05, 10.55-12.15, 12.17-13.13, 13.15-13.43, 13.45-18.30, 20.00-21.52, 21.58-22.50.
05.58-06.30 on 5990/9625kHz (5955/9625kHz March/April); 07.10-08.05 on 5990/9625kHz (to BBC for rebroadcast); 10.55-12.15 on 15320/17820kHz (15325/17820kHz March/April): 12.17-13.13 on 17820kHz; 13.15-13.43 on 17820/21595kHz; 13.45-18.30 on 15320/17820/21595kHz (15325/17820/21595kHz): 20.00-21.52 on 9610/11720/15320kHz (11720/15320/17820kHz): 21.58-22.50 on 15190kHz.
All beams in this service **60°**.

Times	Programmes	News English	News French
05.58-06.30	Canadian Forces		
07.10-07.45	**English**	07.30	
07.45-08.05	French		
10.55-12.15	Canadian Forces		
12.17-13.13	**English**	12.17	
13.15-13.43	French		13.16
13.45-14.15	Ukrainian		
14.15-14.45	Russian		
14.45-15.15	Czech		
15.16-15.29	**News**	15.16	15.22
15.30-16.00	Polish		
16.00-16.15	Russian		
16.15-16.30	Slovak		
16.31-16.59	Canadian Forces	16.32	16.50
17.00-17.15	Polish		
17.15-17.45	Czech		
17.45-18.15	German		
18.15-18.30	Hungarian		
20.00-20.44	French		20.01
20.45-21.15	Canadian Forces	*21.00	20.45
21.15-21.52	**English**	**21.30	
21.58-22.50	Canadian Forces		

*) Sat/Sun only; **) Mon/Fri only.

NORTH AMERICAN & ANTILLES SERVICE:
12.17-13.13 in English on 9625/11720kHz (240°/184°).
13.15-13.43 in French on 11720kHz (184°). **N: English** 12.17. French 13.16.
AFRICAN SERVICE: 07.15-08.00, 18.32-19.58.
07.15-08.00 relayed by BBC, 07.15-07.45 in English. 07.45-08.00 in French; 18.32-19.15 in **English** on 15320/17820/21595kHz; 19.15-19.58 in French on 15320/17820/21595kHz. Beams are 97°/97°/60°.
N in English: 18.33. **N. in French:** 19.15
NORTHERN CANADA SERVICE (East, Central, West):
In English, French, Eskimo: 00.58-07.06, 10.55-12.15, 15.16-15.29, 16.31-16.59, 21.58-22.50.
00.58-04.00 on 5970/9625/11720kHz (5990/9625/11720kHz March/April) (338°); 04.00-07.06 on 5970/9625kHz (5990/9625kHz March/April) (338°); 10.55-12.15 on 9625kHz (351°); 15.16-15.29 and 16.31-16.59 on 15320kHz (15325kHz March-April) (338°); 21.58-22.50 on 9625/11720kHz (351°).
N. in English: 01.00, 02.00 (W), 03.30 (Sun), 04.00, 05.00, 06.00, 07.00, 15.16. **N. in French:** 03.00 (W), 16.15 (Sun), 07.20 (W).
CARIBBEAN & LATIN AMERICAN SERVICE: 22.58-00.46 on 9625/11725/15190kHz (9625/11945/15190kHz March-April) (250°/171°/184°)
22.58-23.30 English, 23.30-00.00 Portuguese. 00.00-00.46 Spanish.
N. in English: 23.01. **N. in Portuguese:** 23.30. **N. in Spanish:** 00.00.
SOUTH PACIFIC SERVICE in English: 08.25-09.35 on 5970/9625 kHz (5970/9630kHz March-April) (250°/290°). **N:** 08.30.
DX-PRGR: English: Sat 12.21, 18.48, 21.24, 23.06; Sun 07.36 08.36. **French:** Sat 07.45, 19.49; Sun 13.20, 20.25. **German:** Sun 18.00, 18.45 (BBC relay). **Portuguese:** Sat 23.30. **Spanish:** Sat 24.00. **Czech:** Sun (fortnightly) 14.45, 17.15. **Polish:** Sat 17.00, 21.00 (BBC relay), Sun 15.45. **Hungarian:** Sat 18.15.
ANN: E: "This is the International Sce. of the CBC". F: "Ici R. Canada". G: "Hier spricht Kanada". P: "A. R. Canada transmite para o Brasil". Sp: "Transmite R. Canada". Czech: "Kanada volá Ceskoslovensko". Polish: "Tu mowi Kanada". Slovak: "Hovori Kanada".
INT-SIG: First four notes of National Anthem: "O Canada" (piano):



V. by letter or QSL-card — **PUB:** CBC-Radio-Canada prgr. sched. published four times a year, sent free upon request.
F. PL: Seven 250kW sw-tr's.

PRIVATELY OWNED COMMERCIAL STATIONS

CANADIAN ASSOCIATION OF RADIO AND TELEVISION BROADCASTERS: Head Office, 108 Sparks St. Ottawa 4.
Medium Waves: Stations less than 1kW not mentioned. ° = also Short Wave.

	Call	kHz	kW		Call	kHz	kW
1)	CFNB	550	50	9)	CHCM	560	1/0.5
2)	CHLN	550	10/5	10)	CKNL	560	1
3)	CKPG	550	10	11)	CJEM	570	5/1
4)	CFBR	550	1	12)	CFCB	570	1
5)	CHTK	560	1/0.25	13)	CKCQ	570	1
6)	CJKL	560	5	14)	CKEK	570	1
7)	CKCN	560	10/5	15)	CFRA	580	50/10
8)	CFOS	560	1				

	Call	kHz	kW
16)	CHLC	580	5/2.5
17)	CJFX	580	10
18)	CKPR	580	5/1
19)	CKUA	580	10
20)	CKY	580	50
21)	CKAP	580	1
22)	CKXR	580	1
23)	VOCM	590	10
24)	CKEY	590	10
25)	CFAR	590	10/1
26)	CFTK	590	1
27)	CKRS	590	1
28)	CFCF	°600	5
29)	CFCH	600	10/5
30)	CFQC	600	5
31)	CJOR	600	10
32)	CKCL	600	1
33)	CHNC	610	10/5
34)	CKTB	610	10/5
35)	CKYL	610	10/1
36)	CHTM	610	1
37)	CJAT	610	1
38)	CKML	610	1
39)	CFCL	620	10/5
40)	CKCK	620	5
41)	CKCM	620	10
42)	CFCY	630	10
43)	CFCO	630	10/1
44)	CHED	630	10
45)	CHLT	630	10/5
46)	CJET	630	10
47)	CKRC	630	10
48)	CKAR	630	1
49)	CKOV	630	1
50)	CHFA	680	5
51)	CJCN	680	10
52)	CJOB	680	10/2.5
53)	CKGB	680	10
54)	CHFI	680	1/10
55)	CHLO	680	1
56)	CFRG	710	5
57)	CKVM	710	10/1
58)	CJOX	710	1
59)	CHYR	710	10
60)	CKAC	730	50
61)	CKDM	730	10/5
62)	CKLG	730	10
63)	CJNR	730	1
64)	CFDR	790	5
65)	CFCW	790	10
66)	CKSO	790	10/5
67)	CHIC	790	1/0.5
68)	CKMR	790	1
69)	CHAB	800	10
70)	CHRC	800	50
71)	CJAD	800	50/10
72)	CJLX	800	10/5
73)	CKOK	800	10/0.5
74)	CKLW	800	50
75)	CFOB	800	1/0.5
76)	CJBQ	800	1
77)	VOWR	800	1
78)	CHQR	810	10
79)	CKRD	850	10/1
80)	CKVL	850	50/10
81)	CJIC	850	1
82)	CHML	900	5
83)	CHNO	900	10/1
84)	CJBR	900	10
85)	CJVI	900	10
86)	CKBI	900	10
87)	CKVD	900	10/2.5
88)	CKDH	900	1
89)	CKDR	900	1/0.25
90)	CKJL	900	1
91)	CKTS	900	1
92)	CFJC	910	10/1
93)	CJDV	910	5
94)	CHRL	910	1
95)	CKLY	910	1
96)	CJCH	920	10/5
97)	CKCY	920	10/5
98)	CFRY	920	1
99)	CJCI	920	1
100)	CKNX	920	2.5/1
101)	CFBC	930	10/5
102)	CJCA	930	10/5
103)	CJON	930	10
104)	CJGX	940	10
105)	CJIB	940	10/1
106)	CKBB	950	10/2.5
107)	CKNB	950	10/1
108)	CHER	950	10
109)	CFAC	960	10/10d
110)	CHNS	°960	10
111)	CKWS	960	10/5
112)	CKCH	970	5
113)	CFPL	980	10/5
114)	CHEX	980	10/5
115)	CKGM	980	10
116)	CKNW	980	50
117)	CKRM	980	10/5
118)	CKBW	1000	10
119)	CFRB	°1010	50
120)	CFGP	1050	10d
121)	CHUM	1050	50
122)	CJIC	1050	10/2.5
123	CKSB	1050	10
124)	CJNB	1050	10
125)	CFCN	°1060	50
126)	CJLR	1060	10
127)	CHOK	1070	5/1
128)	CFAX	1070	1
129)	CKSA	1080	10
130)	CHEC	1090	5
131)	CHRS	1090	10
132)	CHQT	1110	10
133)	CFML	1110	1
134)	CKWX	°1130	50
135)	CKXL	1140	10
136)	CHSJ	1150	10/5
137)	CKOC	1150	10
138)	CKTR	1150	10/1
139)	CKX	1150	10/1
140)	CFNS	1170	1
141)	CJOC	1220	10/5
142)	CKDA	1220	25
143)	CKCW	1220	10
144)	CHSC	1220	1/0.5
145)	CJRL	1220	1
146)	CJSS	1220	1
147)	CKSM	1220	1
148)	CFBV	1230	1/0.25
149)	CFPA	1230	1/0.25
150)	CHVD	1230	1/0.25
151)	CKLD	1230	1/0.25
152)	CKMP	1230	1/0.25
153)	CKTK	1230	1/0.25
154)	CJSA	1230	1/0.25
155)	CJTT	1230	1/0.25
156)	CFLM	1240	1/0.25
157)	CFVR	1240	1/0.25
158)	CJAV	1240	1/0.25
159)	CJWA	1240	1/0.25
160)	CKOO	1240	1/0.25
161)	CKBL	1250	10/5
162)	CKOM	1250	10
163)	CHSM	1250	10
164)	CHWO	1250	1/0.5
165)	CFRN	1260	50
166)	CHAT	1270	10
167)	CHWK	1270	10
168)	CJCB	°1270	10
169)	CFGT	1270	1
170)	CHIQ	1280	10/5
171)	CJMS	1280	50
172)	CKCV	1280	10/5
173)	CHQB	1280	1
174)	CJSL	1280	1
175)	CHAM	1280	10/5
176)	CFAM	1290	10/5
177)	CJOE	1290	10
178)	CJME	1300	1
179)	CFGM	1310	10/2.5
180)	CHGB	1310	5
181)	CKOY	1310	50
182)	CHQM	1320	50
183)	CKKW	1320	1
184)	CJSO	1320	10/5
185)	CKEC	1320	5
186)	CKKR	1330	10
187)	CFSL	1340	1/0.25
188)	CKOX	1340	1/0.25
189)	CKLB	1350	10/5
190)	CHOV	1350	1
191)	CJDC	1350	1
192)	CJLM	1350	1
193)	CKEN	1350	1
194)	CKBC	1360	10
195)	CFLV	1370	10/5
196)	CKLC	1380	10/5
197)	CKPC	1380	10
198)	CFDA	1380	1
199)	CHOO	1390	10
200)	CKLN	1390	1
201)	CKKC	1390	1
202)	CJEP	1400	10/0.25
203)	CKSW	1400	1/0.25
204)	CFMB	1410	10
205)	CFUN	1410	10
206)	CKSL	1410	10
207)	CJVR	1420	10
208)	CJMT	1420	1
209)	CKPT	1420	5
210)	CKFH	1430	10
211)	CKPM	1440	10
212)	CFCP	1440	1
213)	CFJR	1450	1/0.25
214)	CHEF	1450	1/0.25
215)	CHUC	1450	1
216)	CJBM	1450	1/0.25
217)	CJOY	1460	10/5
218)	CKRB	1460	10/5
219)	CFOX	1470	10/5
220)	CJQM	1470	5
221)	CFRW	1470	5
222)	CHOW	1470	1/0.5
223)	CHRD	1480	10
224)	CHYM	1490	10/5
225)	CJSN	1490	1/0.25
226)	CKAD	1490	1/0.25
227)	CKBM	1490	1/0.25
228)	CKAY	1500	1
229)	CJRS	1510	10
230)	CKOT	1510	1
231)	CHIN	1540	50
232)	CFOR	1570	10/1
233)	CHUB	1570	10
234)	CKLM	1570	50
	CJRN	1600	10

Short Waves:

	Call	kHz	m	kW	
28)	CFCW	6005	49.96	0.5	Canadian Marconi, Montreal: 24 h
168)	CJCX	6010	49.92	1	Cape Breton Broadc, Sydney: 09.00-05.00
125)	CFVP	6030	49.75	0.1	The Voice of the Prairies, Calgary: 24 h
119)	CFRX	6070	49.42	1	Standard Broadc. Corpo, Toronto: 24 h
134)	CFKX	6080	49.34	0.01	R. CKWX, Vancouver
110)	CHNX	6130	48.94	0.5	Maritime Broadc. Co, Halifax: 24 h.

Medium Waves:

1) **R. Atlantic Ltd,** 90 York St, Fredericton, NB. **L.P:** Dir. Gen: D. M. Neill. St. Mgr: J. T. H. Fenety. Dir. Tec: G. D. Love. **D. Prgr:** 24 h. N: On the h. V. by QSL-card.
2) **R. Trois Rivières, Inc,** 3550 Royal Blvd, Trois Rivières, Qu. **L.P:** St. Mgr: M. Danserou. Dir. Tec: O. Lefebre. **D. Prgr. in French:** 11.00-08.00 (Sat 09.00) **N:** 5 min before the h. **V.** by QSL-card.
3) **R. St. CKPG Ltd,** 1220 6th Ave, Prince George, B.C. **L.P:** Dir. Gen: R. T. Harkins. Dir. Tec: D. Alendal. **D. Prgr:** 14.00-09.00. **N:** Every half h. **V.** by letter. Recordings accepted.
4) **The Sudbury Broadc. Co. Ltd,** 166 rue Elm, Sudbury, Ont.
5) **CHTK Radio Ltd,** Prince Rupert, B.C.
6) **Kirkland Lake Broadc. Ltd,** Woolworth Bldg, Governm. Rd. West, Kirkland Lake, Ont
7) **R. Sept-Iles Inc,** Sept-Iles, Qu. **D. Prgr:** W 10.30-07.00. **N:** On the h and half h. **V.** by letter.
8) **Grey and Bruce Broadc. Co. Ltd,** 270 Ninth Street East, Owen Sound, Ont.
9) **The Colonial Broadc. System Ltd.,** Marystown, Nfld.
10) **Northern Lights Broadc. Ltd,** Fort St. John, B.C.
11) **Edmundston R. Ltd,** 99 Canada Rd, Edmundston, N.B.
12) **Humber Valley Broadc. Co. Ltd,** Corner Brook, Nfld.
13) **Cariboo Broadc's Ltd,** Box 3000, Quesnel, B.C. **L.P:** Gen. Mgr: D. Reid. Dir. Tec: S. Davis. **D. Prgr:** 14.00-07.05. **N:** On the h. **V.** by letter. Recordings accepted.
14) **East Kootenay Broadc. Co. Ltd,** 28–8th Ave So, Cranbrook, B.C. **L.P:** Pres: L. J. Hoole. **D. Prgr:** 13.00-07.00. **V.** by letter.
15) **CFRA Broadc. Ltd,** 150 Isabella Str, Ottawa, Ont. **L.P:** Gen. Mgr: T. Kielty. Chief Eng: G. Roach. **D. Prgr.** 24 h. **N:** Every h and half h. **V.** by QSL-card. Recordings accepted.
16) **R. Côte-Nord Inc,** Blvd. Blanche 15, Hautérive, Qu. **L.P:** St. Mgr: H. Desjardins. Dir. Tec: G. de Varennes. **D.Prgr:** 10.30-04.30 in French. **N:** On the h. **V.** by letter.
17) **Atlantic Broadc. Ltd,** St. Ninian St, Antigonish, NS. **L.P:** St. Mgr: J. C. Nunn. **D. Prgr:** 09.00-03.15. N: 09.00, 11.00, 12.00, 13.00, 14.00, 15.15, 16.00, 18.00, 19.00, 20.00, 22.00, 01.00, 03.15. **V.** by letter.
18) **H. F. Dougall Co. Ltd,** 87 No. Hill St. Port Arthur, Ont. **D. Prgr:** 12.52-08.02. **N. in English:** 14.50, 19.00, 21.50, 00.20, 01.30, 05.00. **V.** by letter.
19) **University of Alberta,** 10526 Jasper Ave, Edmonton, Alta.
20) **Moffat Broadc. Ltd,** 432 Main St, Winnipeg, Man. **L.P:** Dir. Gen: R. L. Moffat. Dir. Tec: A. Malowanchuk. **D. Prgr:** 24 h. **V.** by letter.
21) **Kapuskasing Broadc. Co. Ltd,** 7 Superior St, Kapuskasing.
22) **Hall-Gray Broadc. Co. Ltd,** Hudson St, Salmon Arm, B.C.
23) **Colonial Broadc. System Ltd,** P.O. Box 1590, St. John's, Nfld. **L.P:** Gen. Mgr: W. Williamson. Dir. Tec: W. B. Williams. **D. Prgr:** 08.58-03.30. **V.** by letter.
24) **Shoreacres Broadc. Co. Ltd,** 247 Davonport Rd, Toronto 5, Ont. **D. Prgr:** 25 h. **V.** by letter.
25) **Arctic R. Corpo. Ltd,** 75 Callinan St, Flin Flon, Man.
26) **Skeena Broadc's Ltd,** Terrace, B.C.
27) **R. Saguenay Ltée,** 175 Sir Wilfred Laurier St, Jonquière, Qu.
28) **Canadian Marconi Co,** 405 Ogilvy Ave, Montreal 15, Qu. **L.P:** St. Mgr: K. Dobson. Prgr. Mgr: G. W. Bascombe. Production Supervisor: J. Kidd. **N:** Every h on the h. **V.** by QSL-card.
29) **Northern Broadc. Ltd,** Callander, Ont.
30) **A. A. Murphy & Sons Ltd,** 216 First Ave. No, Saskatoon, Sask. **L.P:** Gen. Mgr: V. Dallin. Chief Eng: J. Vander Tuuk. **V.** by QSL-card.
31) **CJOR Ltd,** 846 Howe St, Vancouver, B.C. **L. P:** St. Mgr: J. Donaldson. **D. Prgr:** 14.00-10.00. **N:** On the h.
32) **Colchester Broadc. Co. Ltd,** 840 Prince St, Truro, N.S.
33) **La Cie Gaspésienne de Radiodiff. Ltée,** Rue Principale et Boul. Perron, New Carlisle, Qu.
34) **Niagara District Broadc. Co. Ltd,** P.O. Box 610, St. Catharines, Ont. **L.P:** Pres: W. B. C. Burgoyne. St. Mgr: Miss M. C. Burgoyne. Dir. Tec: W. H. Allen. **D.Prgr:** 24 h exc. Sun 07.00-12.40. **N:** Every half h 05.00-13.00 and 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 23.30, 04.00. **V.** by QSL-card and letter.
35) **Peace River Broadc. Corpo,** Box 1150, Peace River. **L.P:** Gen. Mgr: G. Cambridge. **D.Prgr:** 13.00-07.00. **V.** by QSL-card. Recordings accepted. Rp.
36) **Mystery Lake Broadc. Ltd,** Thompson, Man.
37) **Kootenay Broadc. Co. Ltd,** 1300 Cedar St, Trail, B.C.

38) **Radio C.K.M.L. Inc,** 267 Blvd. Paquette, Mont Laurier, Qu
39) **J. Conrad Lavigne Ltd,** P.O. Box 620, Timmins, Ont. **L.P:** Dir. Gen: J. C. Lavigne. St. Mgr: P. Stein. Dir. Tec: F. Palmer. **D.Prgr:** 11.00-05.00. **V.** by QSL-card.
40) **Transcanada Communications Ltd,** P.O. Box 6200, Regina, Sask. **L.P:** Dir. Gen: M. Sifon. St. Mgr: E. Miles. Dir. Tec: H. Dean. **D.Prgr:** 24 h. **N.** Every h on the h. **V.** by QSL-card.
41) **Colonial Broadc. System Ltd,** Grand Falls, Nfld. **L.P:** St. Mgr: J. Murdoch. Dir. Tec: H. G. Feltham. **D.Prgr:** 10.00-05.30. **V.** by letter (belongs to 23).
42) **Islands R. Broadc. Co. Ltd,** 85 Kent St. Charlottetown, PEI. **L.P:** St. Mgr: R. F. Large. Dir. Tec: G. M. Tait. **D.Prgr:** 24 h. **V.** by letter. Rp.
43) **Great Lakes Broadc. System,** Keil Street South, Chatham.
44) **R. St. CHED Ltd.** 10006-107th St, Edmonton, Alta.
45) **R. Television Sherbrooke,** 221 Dufferin St, Sherbrooke, Que. **L.P:** Pres: J. L. Gauthier, St. Mgr: Girard. **D.Prgr:** 11.00 (Sun 13.00)-05.00. **V.** by letter.
46) **Rideau Broadc. Ltd,** Box 630, Smith Falls, Ont. **L.P:** Gen. Mgr: J. W. Pollie. Dir. Tec: R. A. Easton. **D.Prgr:** 24 h. **N.** on the h. **V.** by QSL-card. **FM:** 101.1MHz 47.3kW.
47) **Transcanada Communications Ltd,** 300 Carlton St, Winnipeg, Man. **D.Prgr:** 24 h. **V.** by QSL-card and letter.
48) **Muskoka-Parrysound Broadc. Ltd,** Huntsville, Ont.
49) **Okanagan Broadc's. Ltd,** 1491 Pendozi St, Kelowna, B.C.
50) **R. Edmonton Ltd,** 10012-109è Rue, Edmonton, Alta. **L.P:** St. Mgr: B. J. Gagnon. Dir. Tec: A. Rouleau. **D.Prgr:** 13.50-07.05 in French. **N:** 13.55, 14.28, 15.00, 15.28, 16.00, 17.00, 18.00, 19.15, 20.28, 21.00, 22.00, 23.00, 00.00, 00.30, 00.55.
51) **Newfoundland Broadc. Co. Ltd,** Grand Falls, Nfld. **D.Prgr:** 24 h. **N:** on the h.
52) **R. OB Ltd,** 930 Portage Ave, Winnipeg 10, Man.
53) **Timmins Broadc. Ltd,** Thomson Bldg, Timmins, Ont.
54) **Rogers Broadc. Ltd,** 13 Adelaide St. East, Toronto, Ont. **L.P:** Pres: E. S. Rogers. Dir. Tec: R. Turnpenny. **D.Prgr:** 24 h. **V.** by letter.
55) **Souwesto Broadc's. Ltd,** 133 Curtis St, St. Thomas, Ont.
56) **R. Gravelbourg Ltée,** Edifice Villeneuve, Main St, Gravelbourg, Sask. **D.Prgr. in French:** 13.00-24.00.
57) **R. Temiscamingue Inc,** Rue-Saint Anne, Ville-Marie, Que.
58) **Newfoundland Broadc. Co. Ltd,** Grand Bank, Nfld. **D.Prgr:** 24 h.
59) **Sun Parlor Broadc's. Ltd,** Box 70, Leamington, Ont. **D.Prgr:** 24 h in English (& French, German, Italian, Hungarian). **V.** by QSL-card.
60) **R. St. CKAC Ltd,** 1400 Metcalfe St, Montreal, Que. **L.P:** Gen. Mgr: J. M. Goulet. Dir. Tec: J. A. Lange. **D.Prgr:** 24 h. **V.** by letter.
61) **Dauphin Broadc. Co. Ltd.** 3rd Ave. N.E. Dauphin, Man. **D.Prgr:** 24 h.
62) **Moffat Broadc. Ltd,** 1006 Richards St, Vancouver, B.C. **D.Prgr:** 14.00-08.00. **N:** On the h. **V.** by letter.
63) **Algonquin Radio-TV Co. Ltd,** Blind River, Ont.
64) **R. Dartmouth Ltd,** 66 Ochterluney St, Dartmouth, N.S. **L.P:** Gen. Mgr: C. Flemming. Dir. Tec: J. Hutchison. **D.Prgr:** 10.00-05.10. **N:** on the h. **V.** by letter.
65) **Camrose Broadc. Co. Ltd,** Box 1600, Camrose, Alta. **L.P:** St. Mgr: W. H. Holte. Dir. Tec: L. Olson. **D.Prgr:** 24 h. **N:** Every h on the h. **V.** by QSL-card. Recordings accepted.
66) **Cambrian Broadc. Ltd,** 336 Ash St, Sudbury, Ont. **D.Prgr:** 13.00-07.00.
67) **CHIC Radio Ltd,** 2 Ellen St, Brampton, Ont.
68) **Miramichi Broadc. Co. Ltd,** Castle St, Newcastle, N.B. **L.P:** St. Mgr: R. J. Wallace. **D.Prgr:** 10.30-04.00.
69) **CHAB Ltd,** 127 Main St, Moose Jaw, Sask. **D.Prgr:** 12.00-07.00.
70) **CHRC Ltée,** 1143 rue St. Jean, Quebec 4, Que. **L.P:** St. Mgr: A. Pelletier. Dir. Tec: A. Nadeau. **D.Prgr:** 11.00-07.00. **N:** 13.00, 18.00, 22.55, 03.30 + headlines 5 min before the h. **V.** by letter and QSL-card. Rp.
71) **CJAD Ltd,** 1407 Mountain St, Montreal, Que. **L.P:** St. Mgr: H. T. McCurdy. Dir. Tec: E. Mott. Dir. Prgr's: Wm. Roberts. **D.Prgr:** 24 h. **N:** On the h and 11.30, 12.30, 13.30, 17.30. **V.** by QSL-card. Recordings accepted.
72) **Lakehead Broadc. Co. Ltd,** 213 Myles St, Fort William.
73) **Okanagan Radio Ltd,** P.O. Box 338, Penticton, B.C. **L.P:** St. Mgr: R. Robinson. Dir. Tec: H. McRae. Dir. Prgr: W. B. Heinrich. **D.Prgr:** 14.00-09.00 (Sun 15.00-08.00). **N:** Every h on the h exc. 21.00, 22.00, 04.00, 05.00; Also at 14.30, 15.30, 16.30, 17.30, 18.30, 20.30, 21.30, 22.30, 01.30. **V.** by QSL-card. Recordings accepted.
74) **Western Ontario Broadc. Co. Ltd,** 825 Riverside Dr, Windsor, Ont.
75) **Border Broadc. Ltd,** 240 1/2 Scott St, Fort Frances, Ont.
76) **Quinte Broadc. Co. Ltd,** 45 Bridge St. East, Belleville, Ont.
77) **Wesley United Church R. Board,** P.O. Box 1567, **L.P:** St. John's. Dir. Gen: E. Hudson. Dir. Tec: R. C. Peddle. **D.Prgr:** Mon-Thurs 23.00-02.00. Sun 13.30-16.45, 21.30-01.30. **V.** by QSL-card. Recordings accepted.
78) **CHQR Radio,** 1030-4th St, Calgary, Alta. **L.P:** Pres. & Gen. Mgr: T. Soskin. **D.Prgr:** 24 h. **V.** by letter.
79) **Central Alberta Broadc. Co,** (1961) Ltd, 5405 Gaetz Ave, Red Deer, Alta.
80) **R. Futura Ltée,** 211 Gordon Ave. Verdun, Que. **L.P:** Dir. Gen: J. Tietolman. Dir. Tec: M. Rousseau. **D.Prgr. in French:** 24 h. **N:** 5 min before each h. On 96.9MHz (307kW) in English & French. **V.** by QSL-card.
81) **City and Country Radio Ltd,** Langley, B.C.
82) **Maple Leaf Broadc. Co. Ltd,** 848 Main St, East, Hamilton, Ont. **L.P:** St. Mgr: W. E. "Bill" Hall. Dir. Tec: E. Victor. **D.Prgr:** 24 h. **N:** 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 11.30, 12.00, 12.30, 12.45, 13.30, 14.00, 15.00, 16.00, 17.00, 17.30, 20.00, 21.00, 22.00, 23.00, 24.00, 04.00. **V.** by letter.
83) **The Sudbury Broadc. Co. Ltd,** 166 Elm St. West, Sudbury, Ont.
84) **Lower St. Lawrence R. Inc,** 13 St. Jean Baptiste, Rimouski.
85) **Island Broadc. Co. Ltd,** P.O. Box 940, Victoria, B.C. **L.P:** Gen. Mgr: K. C. Goddard. St. Mgr: W. Guid. Dir. Tec: M. Doyle. **D.Prgr:** 24 h. **N:** Every h on the h and 14.30, 15.30, 16.30, 20.30, 00.35, 01.05, 01.35. **V.** by letter. **Pub:** Prgr. schedule free. Recordings accepted.
86) **Central Broadc. Co. Ltd,** CKBI Bldg, 10th St, Prince Albert, Sask.
87) **R. Nord Inc,** Angle 3è Avenue et 3è rue, Val d'Or, Que.
88) **Tantramar Broadc. Ltd,** 32 Church St, Amherst, N.S.
89) **Lake of the Woods Broadc. Ltd,** 7 King St, Dryden, Ont.
90) **R. Laurentides Inc,** P.O. Box 900, Saint-Jerome, Que. **L.P:** Pres. & Gen. Mgr: J. Lalonde. Gen. Mgr: J. R. Fox. Dir. Tec: B. Atkin. **D.Prgr:** (French): 11.55-04.55. **N:** 5 *min before the h.* **V.** by QSL-card or letter. Recordings accepted. **F.Pl:** 10kW.
91) **CKTS Radio,** 221 Dufferine St, Sherbrooke, Que. **L.P:** Dir. Gen: J. Dunne. Gen. Mgr: H. Delorme. Dir. Tec: R. Thieboult. **V.** by QSL-card.
92) **Twin Cities Radio Ltd,** 460 Pemberton Terrace, Kamloops, B.C. **L.P:** St. Mgr: I. G. Clark. Dir. Tec: K. Reichenek. **D.Prgr:** 14.00-08.00. **N:** 5 min before the h and 20.10. **V.** by letter.
93) **R. Station CJDV,** 327 2nd St. W, Drumheller, Alta. **L.P:** Gen. Mgr: T. Mayer. Dir.Tec: J. Bruin. **D.Prgr:** 24 h. **N:** Every half h. **V.** by letter.
94) **R. Roberval Incorporée,** A. L. Green Building, Roberval, Que.
95) **Greg-May Broadc. Ltd,** 249 Kent Street West, Lindsay, Ont.
96) ***R. CJCH 920 Ltd,*** 2885 Robie St, Halifax, N.S. **L.P:** Gen. Mgr: F. G. Sherratt. Dir. Tec: R. M. McCausland. **D.Prgr:** 24 h. **N:** 5 min before the h. **V.** by letter. Recordings accepted.
97) **Algonquin R. TV Co. Ltd,** 254 Queen St. East, Sault Ste. Marie, Ont. **L.P:** Gen. Mgr: C. P. Greo. Dir. Tec: R. G. Rylatt. **D.Prgr:** 24 h.
98) **Portage-Delta Broadc. Co. Ltd,** Portage la Prairie, Man. **L.P:** Pres. & Gen. Mgr: R. D. Hughes. Sales Dir: J. E. Follett. **D.Prgr. in English** (Ukrainian & German): 13.00-07.00. **V.** by letter. Recordings accepted. Rp.
99) **Carleton-Victoria Broadc. Co. Ltd,** Ross Bldg, Main St, Woodstock, N.B.
100) **R. St. CKNX Ltd,** Corner of Carling Terrace and John St, Wingham, Ont.
101) **Fundy Broadc. Co. Ltd,** 68 Carleton St, St. John, N.B. **L.P:** Dir. Gen: J. Turnbull. Gen. Mgr: R. Lockhart. Dir. Tec: C. Weeks. **D.Prgr:** 10.00-05.00 (Sun 11.00-04.00) Rc not wanted.
102) **Edmonton Broadc. Co. Ltd,** 10113-104th St. Edmonton, Alta. **L.P:** St. Mgr: J. D. Elton. Dir. Tec: G. Skutle. **D.Prgr:** 24 h. **N:** on the h. **V.** by QSL-card. Recordings accepted.
103) **Newfoundland Broadc. Co,** Prince of Wales St, St. Johns, Nfld. **L.P:** Chmn. of the Board: G. Stirling. Pres: D. Jamieson. Gen. Mgr: C. Jamieson. **D.Prgr:** 24 h. **V.** by QSL-card.
104) **R. St. CJGX,** Tower Bldg, Yorktown, Sask. **L.P:** St Mgr: G. G. Gallagher. Dir Tec: H. Kerr. **D.Prgr:** 24 h. **V.** by QSL-card. Recordings accepted.
105) **Interior Broadc. Ltd,** 3315 B. Barnard Ave, Vernon, B.C.
106) **Barrie Broadc. Co. Ltd,** Box 519, Barrie, Ont. **L.P:** Gen. Mgr: W. Bjorgan. Operations Dir: D. Lennox. Dir. Tec: B. Verwey. **D.Prgr:** 11.00-05.00. **N:** 11.30, 12.00, 12.30, 12.50, 13.30, 14.00, 15.00, 16.00, 17.00, 17.30, 18.00, 19.00, 20.00, 21.00, 22.00, 22.30, 23.00, 24.00, 01.00, 02.00, 03.00, 04.00, 05.00. **V.** by letter. Rp. **F.PL:** 93.1MHz 100kW.
107) **Restigouche Broadc. Co. Ltd,** P.O. Box 340, Campbellton, N.B. **L.P:** St. Mgr: W. J. Freeman. Man. Dir: P. Athier. **D.Prgr:** 10.30-04.00. **V:** Reports not wanted.
108) **CHER Broadc. Ltd,** P.O. Box 950, Sydney, N.S. **L.P:** Man. Dir: R. D. Neima. Dir. Tec: N. Robar. **D.Prgr:** 24 h exc. Mon 04.00-10.00. **V.** by letter. Recordings accepted.
109) **Calgary Broadc. Co. Ltd,** 1301-17th Ave. S.W, Calgary 3, Alta. **L.P:** Pres. & Gen. Mgr: D. F. Penn. Sales Mgr: G. N. Walker. **D.Prgr:** 24 h. **V.** by QSL-card. Recordings accepted. Rp.
110) **Maritime Broadc. Co. Ltd,** P.O. Box 400, Halifax, N.S. **Te:** (902) 422-1651. **L.P:** Gen. Mgr: F. W. Arenburg. Dir. Tec: R. H. Parker. **D.Prgr:** 24 h. **N:** On the h. **Ann:** "This is R. St. CHNX, Halifax, Nova Scotia". **V.** by QSL-card. Rp. Recordings accepted. **FM:** 96.1MHz 19.5kW.
111) ***Frontenac Broadc. Co. Ltd,*** 170 Queen St, Kingston, Ont. **L.P:** St. Mgr: R. Hofstetter. **D.Prgr:** 10.30-06.30. **V.** by letter. Recordings accepted.
112) **La Compagnie de Radiodiff. CKCH de Hull, Ltée,** 72 Laval St. Hull, Que.
113) **CFPL Radio,** P.O. Box 2580, London, Ont. **L.P:** Gen. Mgr: M. T. Brown. St. Mgr: C. N. Knight. Dir. Tec: G. A. Robitaille. **D.Prgr:** 24 h. **N:** On the h. (95.9MHz – Londons Fine Music Station). **V.** by letter.
114) **Kawartha Broadc. Co. Ltd,** Box 659, Peterborough, Ont. **L.P:** St. Mgr: W. Rewegan. Chief Eng: A. E. Crump. **D.Prgr:** 11.00-06.15. **N:** On the h. **V.** by QSL-card. Rp.
115) **Maisonneuve Broadc. Corp. Ltd,** 1445 Drummond St, Montreal, Que. **L.P:** Dir. Gen: G. Stirling. St. Mgr: D. Wall. Dir. Tec: C. Jarette. **D.Prgr:** 24 h. **N:** On the h. **V.** by QSL-card or letter.
116) **R. NW Ltd,** Windsor Hotel, New Westminster, B.C.
117) **CKRM Radio,** Box 9800, Regina, Sask. **L.P:** Gen Mgr: J. T. Miller. Dir. Tec: L. V. Cozine. **D.Prgr:** 24 h. **N:** On the h and half h. **V.** by QSL-card.
118) **Acadia Broadc. Corpo. Ltd,** 215 Dominion St, Bridgewater, N.S. **L.P:** Gen. Mgr: J. F. Hirtle. St. Mgr: A. MacLeod. Dir. Tec: D. B. Hirtle. **D.Prgr:** 09.58 (Sun 10.58)-04.15. **N:** 10.00, 10.30, 11.00, 11.30, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 20.55, 22.00, 23.00, 24.00, 00.55, 03.00, 04.00. **V.** by QSL-card. Recordings accepted. Rp.
119) **Standard Broadc. Corpo,** 2St. Clair Ave. West, Toronto, Ont. **L.P:** Gen. Mgr: D. H. Hartford. Pres: W. C. Thornton Cran. Dir. Tec: C. Eastwood. **D.Prgr:** 24 h. **N:** Every h on the h. **V.** by QSL-card. Recordings accepted.
120) **Northern Broadc. Corpo. Ltd,** 10008-103rd Ave, Grande Prairie, Alta. **L.P:** Dir: C. A. Perry. Dir. Tec: J. de Roaldes. **D.Prgr:** 24 h. **N:** On the h. **V.** by letter. Recordings accepted.
121) **R. CHUM-1050 Ltd,** 1331 Yonge St, Toronto 7, Ont.
122) **Hyland R. TV Ltd,** 119 East St, Sault Ste. Marie, Ont.

123) **R. Saint Boniface Ltd,** 607 rue Langevin, Saint-Boniface, Man. **L.P:** Dir: R. Couture. Dir. Tec: R. Brodeur. **D.Prgr:** 12.30-06.15 in French exc. Sun afternoon (18.30-24.00) in Hebrew, Italian, Ukrainian, Polish & German. **V.** by letter. Rp.
124) **Northwestern Broadc. Co. Ltd,** 1721 Main St, North Battleford, Sask.
125) **The Voice of the Prairies Ltd,** Broadc. House, Calgary, Alta. **Te:** (403) 249-9101. **L.P:** St. Mgr: R. F. Irvine. Dir. Tec: R. W. Lamb. **D.Prgr:** 24 h. **N:** hourly. **Ann:** "CFCN, The Voice of the Prairies, 1060 Radio". **V.** by QSL-card. Recordings accepted.
126) **CJLR Inc,** P.O. Box 4200, Quebec, Que. **D.Prgr:** 12.00-09.00. **V.** by letter.
127) **Sarnia Broadc. (1964) Ltd,** 148½N. Front St, Sarnia, Ont. **L.P:** Gen. Mgr: K. E. Monk. Dir. Tec: R. F. Cooke. **D.Prgr:** 11.00-06.00. **N:** 13.00-23.00. **V.** by letter. Recordings accepted.
128) **CFAX Radio 1070 Ltd,** Victoria, B.C.
129) **Sask-Alta Broadc. Ltd,** 5036-50th St, Lloydminster, Alta.
130) **Southern Alberta Broadc. Ltd,** 410 Mayor Magrath Drive, Lethbridge, Alta. **L.P:** St. Mgr: H. W. Brown. Prgr. Dir: B. MacDonald. **D.Prgr:** 12.00-09.00. **N:** Every h on the h and at 14.30, 15.30, 19.30, 22.30. **V.** by letter. Reports to Box 1090, Lethbridge.
131) **R. Iberville Ltd,** C.P.1090, Jacques-Cartier, Que. **L.P:** Gen. Mgr: P. P. Elie. Dir. Tec: E. Pattermann. **D.Prgr's:** 12 hrs (daytime only). **N:** 5 min before each h. **V.** by QSL-card or letter. Recordings accepted.
132) **R. St. CHOT Ltd,** 10154-103St, Edmonton, Alta. **L.P:** Dir. Gen: L. R. Roskin. Gen. Mgr: M. D. Dyck. Dir. Tec: F. Makepeace. **D.Prgr:** 13.30-09.00. **N:** on the h. **V.** by letter. Recordings accepted.
133) **CFML Radio (Cornwall) Ltd,** 1308 Pitt St, Cornwall, Ont.
134) **CKWX R. Ltd,** 1275 Burrard St, Vancouver, B.C.
135) **Bow Valley Broadc. Co. Ltd,** 804-16th Ave. SW, Calgary, Alta. **L.P:** Gen. Mgr: J. M. Pryor Jr. Dir. Tec: W. Martin. **D.Prgr:** 24 h. **N:** on the h. **V.** by letter. Recordings accepted.
136) **New Brunswick Broadc. Co. Ltd,** Broadc. House, 335 Union St, Saint John, N.B. **L.P:** Gen. Mgr: G. Cromwell. St. Mgr: D. Burrows. Operations Mgr: D. Kirton. Dir. Prgr: P. de Veau. **D.Prgr:** 24 h exc. Mon 04.00-10.00. **V.** by QSL-card.
137) **Wentworth R. Broadc. Co. Ltd,** 73 Garfield St, So. Hamilton, Ont. **L.P:** Dir. Gen: C. Sifton. Vice Pres. & Gen. Mgr: D. R. Dawson. Dir. Tec: L. Horton. **D.Prgr:** 24 h. **N:** Every h on the h and 12.30, 13.30, 14.30, 18.30, 00.30. **V.** by letter.
138) **CKTR (1958) Ltdée,** City Hall Square, 12th Floor, Place Royale, Trois Rivières, Que. **L.P:** St. Mgr: C. Couture. Dir. Tec: H. Lapointe. **V.** by QSL-card and by letter. Rp.
139) **Western Manitoba Broadc. Ltd,** 2490 Victoria Ave, Brandon, Man.
140) **R. Prairies-Nord Ltée,** Block 1400 Alexandre St. Saskatoon, Sask.
141) **Lethbridge Broadc. Ltd,** 1015-3rd Ave. So, Lethbridge, Alta.
142) **Capital Broadc. System Ltd,** P.O. Box 967, Victoria, B.C. **L.P:** St. Mgr: K. G. MacKenzie. Dir. Tec: F. Cole. **D.Prgr:** 24 h. **N:** On the h. **V.** by QSL-card. Recordings accepted.
143) **Moncton Broadc. Ltd,** P.O. Box 1220, Moncton, N.B. **L.P:** Man. Dir: A. Lynds. Dir. Tec: R. Oke. **D.Prgr:** W. 10.00-05.00 (Sat 06.00), Sun 12.00-04.15. **V.** by QSL-card. Recordings accepted.
144) **R. St. CHSC Ltd,** 36 Queenstown St, St. Catharines, Ont. **L.P:** Pres: R. E. Redmond. Dir. Tec: R. Brundle. **FM:** 105.7MHz 50kW.
145) **Lake of the Woods Broadc. Ltd,** Box 580, Dryden, Ont. **D.Prgr:** 10.00-04.00.
146) **Tri-Co Broadc. Ltd,** 237 Water St. East, Cornwall, Ont.
147) **The Shawinigan Falls Broadc. Co. Ltd,** Edifice Hotel de Ville, Shawinigan, Que.
148) **CFBV Ltd,** P.O. Box 335, Smithers, B.C. **L.P:** Pres. & Gen. Mgr: R. A. East. Dir. Tec: S. W. Davis. **D.Prgr:** 14.30 (Sun 15.30)-07.30 (Sat 08.00). **N:** 16.00, 20.10, 02.00.
149) **Ralph H. Parker Ltd,** 230N Cumberland St, Port Arthur, Ont.
150) **R. Marie-Chapdelaine Inc,** 540 Walberg Blvd, Dolbeau, Que.
151) **R. Mégantic Limitée,** 327 rue l'Abbé, Thetford Mines, Que.
152) **Midland-Penetang Broadc. Ltd,** Midland, Ont.
153) **Skeena Broadc. Ltd,** Kitimat, B.C.
154) **R. Sainte-Agathe Inc,** 3est, rue Principale, Ste. Agathe des Monts, Que.
155) **Kirkland Lake Broadc. Ltd,** Kirkland Lake, Ont.
156) **R. La Tuque Ltd,** 529 rue St Louis, La Tuque, Que.
157) **Fraser Valley Broadc. Ltd,** Abbotsford, B.C.
158) **CJAV Ltd,** 205-3rd Ave. South, Port Alberni, B.C.
159) **Hyland Radio-TV Ltd,** 119 East St, Sault Ste. Marie, Ont.
160) **Okanagan Radio Ltd,** Main St, Osoyoos, B.C.
161) **La Compagnie de Radiodiff. de Matane Ltée,** 155 Rue St. Sacrament, Matane, Que. **L.P:** Dir. Gen: R. Lapointe. Dir. Tec: Y. Fortier. **D.Prgr (French):** 10.00-05.00. **N:** On the h. **V.** by QSL-card.
162) **Saskatoon Community Broadc. Co. Ltd,** Empire Hotel, Saskatoon.
163) **Southern Manitoba Broadc. Co,** P.O. Box 1000, Altona, Man. **L.P:** Dir. Gen: W. E. Kroeker. Gen. Mgr: E. Hildebrand. Dir. Tec: J. Pauls. **D.Prgr:** 24 h. **N:** On the h and at 12.30, 13.30, 14.30, 18.30, 23.30, 00.30. **V.** by QSL-card. Recordings accepted. Rp. (CHSM = Steinbach).
164) **CHWO R. Ltd,** 490 Wyecrott Road, Oakville, Ont.
165) **The Sunwapta Broadc. Co. Ltd,** Broadc. House, Jasper Highway West, Edmonton, Alta. **L.P:** St. Mgr: A. J. Hopps. Dir. Tec: T. E. Wadson. **D.Prgr:** 12.00-08.00. **N:** Every 30 min's, 12.30-15.30, on the h 16.00-08.00 and at 19.20, 00.30. **V.** by QSL-card. Written reports preferred.
166) **Monarch Broadc. Co. Ltd,** Box 880, Medicine Hat, Alta. **L.P:** St. Mgr: T. G. Gunter. Dir. Tec: S. Gaffney. **D.Prgr:** W 13.00-08.00. Sun 14.00-07.00. **N:** Every 30 mins. **V.** by letter.
167) **Fraser Valley Broadc. Ltd,** P.O. Box 50. Chilliwack. B.C.
L.P: Pres: M. Maclachlan. **D.Prgr:** 14.00-08.00. **V.** by letter.
168) **Cape Breton Broadc. Ltd,** R. Bldg, 318 Charlotte St, Sydney, N.S. **Te:** (902) 564-5596. **Telex:** 014-4595. **L.P:** Gen. Mgr: N. L. Hathanson. Dir. Tec: A. Vernon. **D.Prgr:** 09.00-05.00. **V.** by QSL-card.
169) **R. Lac St Jean Ltée,** 740 Avenue Du Pont, Alma, Que.
170) **R. St. CHIQ,** Terminal Tower, King St. East, Hamilton, Ont. **D.Prgr:** 24 h.
171) **CJMS R. Montreal Ltd,** 1700 Berri St, Montreal, Que. **L.P:** Gen. Mgr: R. Demers. **D.Prgr:** 24 h in French. **N:** Every half h. **V.** by letter.
172) **CKCV (Quebec) Ltd,** 978 St. John St. Quebec. **L.P:** Gen. Mgr: M. Alain. Sales Mgr: E. B. Cardinal. **D.Prgr:** 24 h in French. **N:** Every half h. **V.** by letter. Recordings accepted.
173) **Sunshine Coast Broadc. Ltd,** Alberni St. Powell River, B.C.
174) **Soo Line Broadc. Co. Ltd,** Estevan, Sask.
175) **Rogers Broadc. Ltd,** 140 King St. East, Hamilton, Ont.
176) **Middlesex Broadc. Ltd,** Hotel London Ltd. 279 Dundas St, London, Ont.
177) **Midwest Broadc. Ltd,** 1771 Rose St, Regina, Sask. **L.P:** Gen. Mgr: R. Hutton. Dir. Tec. D. M. Senft. **D.Prgr:** 24 h.
178) **CFGM Broadc. Ltd,** 50 Yonge St. North, Richmond Hill, Ont. **L.P:** St. Mgr: S. H. Coxford. Dir. Tec: G. Symons. **D.Prgr:** 24 h. **N:** On the half h. **V.** by letter or QSL-card. Rp.
179) **CHGB Ltée,** 508 4th Ave, La Pocatière, Que. **L.P:** Dir. Gen: G. T. Desjardins. Dir. Tec: M. A. Frève. **D.Prgr** (French): 11.00-07.00. **N:** Every h on the h. **V.** by letter. Recordings accepted.
180) **CKOY Ltd,** 635 Richmond Rd, Ottawa, Ont.
181) **Vancouver Broadc. Associates Ltd,** 1134 Burrard St, Vancouver 1, B.C. **L.P:** Pres. & Man. Dir: W. E. Bellman. Dir. Tec: S. Davis. **D.Prgr:** 24 h. **N:** On the h. **V.** by QSL-card or letter. Recordings accepted.
182) **Central Ontario Television Ltd,** 864 King St. West, Kitchener, Ont. **D.Prgr:** 12.50-05.15. **V.** by letter.
183) **R. Richelieu Ltée,** 72 rue du Roi, Sorel, Que.
184) **Hector Broadc. Co. Ltd,** 130 Georges St, New Glasgow, N.S.
185) **Goose Lake Broadc. Co. Ltd,** Rosetown, Sask.
186) **Soo Line Broadc. Co. Ltd,** Corner Souris Ave. & 3rd St, Weyburn, Sask.
187) **Oxford Broadc. Co. Ltd,** 290 Dundas St, Woodstock, Ont.
188) **Lakeland Broadc. Co. Ltd,** 16 Centre St, Oshawa, Ont.
189) **The Ottawa Valley Broadc. Co. Ltd,** 319 Pembroke St. East, Pembroke, Ont.
190) **R. Station CJDC Ltd,** 9th St. 2nd Ave, Dawson Creek, B.C.
191) **R. Richelieu Ltée,** 113 St. Paul St, Joliette, Que.
192) **Evangeline Broadc. Co. Ltd,** Radio Centre, Kentville, N.S. **L.P:** Man. Dir: W. A. Bishop. **D.Prgr:** 10.00-04.00.
193) **Bathurst Broadc. Co. Ltd,** 455 Golf St, Bathurst, N.B.
194) **R. Valleyfield Ltd,** 249 Victoria St, Valleyfield, Que. **L.P:** Gen. Mgr: J. C. Lefebre. Dir. Tec: Y. Allard. **D.Prgr:** (French): W 11.00-05.00 (Sat 06.00), Sun 13.30-05.00.
195) **St. Lawrence Broadc. Co. Ltd,** 99 Brock St, Kingston, Ont.
196) **The Telephone City Broadc. Ltd,** 571 West St, Brantford, Ont. **L.P:** Gen. Mgr: R. D. Buchman. Dir. Tec: J. A. Featherston. **D.Prgr:** 10.30 (Sun 11.30)-06.10. **V.** by QSL-card. Recordings accepted. **FM:** 92.1MHz 10.2kW.
197) **R. Victoriaville Ltée,** 55 St. Jean Baptiste St, Victoriaville, Que.
198) **R. CHOO Ltd,** 97 MacMaster Ave, Ajax, Ont.
199) **News Publishing Co. Ltd,** 266 Baker St. Nelson, B.C.
200) **Kokanee Broadc. Ltd,** P.O. Box 230, Nelson, B.C. **L.P:** Dir. Gen: G. A. Green. Gen. Mgr: D. H. Glover. **D.Prgr:** 14.00-09.00. **V.** by letter. Recordings accepted.
201) **R. CJEP Ltée,** 1 Christophe Colomb St, Rivière du Loup.
202) **Frontier City Broadc. Co. Ltd,** 134 Central Ave, Swift Current, Sask.
203) **Chateau Broadc. Co,** 2015 Drummond St, Montreal 25, Que. **L.P:** Pres. & Gen. Mgr: C. G. Stanzcykowski. Dir. Tec: D. A. Kuhlmann. **D.Prgr:** 24 h in English, French. **N:** Every 30 min. **V.** by letter.
204) **R. CFUN Ltd,** 1900 W. 4th Ave, Vancouver 9, B.C.
205) **London Broadc. Ltd,** 343 Richmond St, London, Ont. **D.Prgr:** 24 h. **V.** by letter or QSL-card. Recordings accepted.
206) **R. CJVR Ltd,** 611 Main St, Melfort, Sask.
207) **C.J.M.T. Ltée,** 365 rue Racine-East, Chicoutimi, Que. **D.Prgr:** (French): 11.00-07.00. **V.** by letter. Recordings accepted.
208) **R. CHUM-1050 Limited,** Peterborough, Ont.
209) **Foster Hewitt Broadc. Ltd,** 1 Greenville St, Toronto, Ont. **L.P:** Gen. Mgr: F. W. A. (Bill) Hewitt. St. Mgr: B. Nesbitt. Dir. Tec: G. Wilson. **D.Prgr:** 24 h. **N:** On the h. **F.Pl:** 50kW.
210) **Confederation Broadc. (Ottawa) Ltd,** 140 Wellington St, Ottawa, Ont. **L.P:** St. Mgr: B. A. Savage. Dir. Tec: B. Thomas. **D.Prgr:** 24 h. **V.** by QSL-card. Recordings accepted.
211) **CFCP Radio Ltd,** Courtenay, B.C.
212) **Eastern Ontario Broadc. Co. Ltd,** Revere Hotel, Brockville, Ont.
213) **La voix de l'Est Ltée,** 13 rue Centre, Granby, Que.
214) **R. CHUC Limited,** Cobourg, Ont.
215) **La Radio du Bas St-Laurent Inc,** Causapscal, Que.
216) **CJOY Ltd,** Box 217, Guelph, Ont. **L.P:** Gen. Mgr: F. T. Metcalf. Dir. Tec: R. Nagyobb. **D.Prgr:** 24 h.
217) **R. Beauce Inc,** 30 rue Saint-Antoine, Wille Saint-George, Beauce County, Que. **D.Prgr:** 11.00-04.00. **N.** in French: 5 min before the h. **V.** by letter. Rp.
218) **Lakeshore Broadc. Ltd,** P.O. Box 1470, Montreal 3, Que. **L.P:** Dir. Gen: G. Sinclair. Dir. Tec: B. Greeley. **D.Prgr:** W 10.00-07.00, Sun 11.00-06.00. **V.** by letter.
219) **Winnipeg Broadc. Associates Ltd,** 457 Main St, Winnipeg, Man. **L.P:** Dir. Gen: D. L. Croston St. Mgr: H. R. Priddle. Dir. Tec: J. J. Pouls. **D.Prgr:** 24 h exc. Mon 12.00-06.00. **N:** Every h and 12.30, 13.30, 14.30, 18.30. **V.** by QSL-card.
220) **R. Winnipeg,** 457 Main St, Winnipeg 2, Man. **L.P:** Dir. Gen: H. F. Dougall. Dir. Tec: J. Hoeppner. **D.Prgr:** 24 h. **N:** on the h and half h. **V.** by letter & QSL-card. Recordings accepted.
221) **Wellport Broadc. Ltd,** Welland, Ont.
222) **R. Drummond Ltée,** 449 Heriot St, Drummondville, Que.
223) **Greatlakes Broadc. Co. Ltd,** 305 King St, Kitchener, Ont. **L.P:** Gen. Mgr: J. Clark. Dir. Tec: W. R. Graham. **D.Prgr:** 24 h. **V.** by

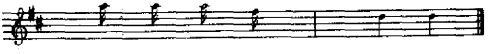
letter. Recordings accepted. **FM:** 96.7MHz 7.8kW.
224) **Frontier City Broadc. Co. Ltd,** Shaunavon, Sask.
225) **Evangeline Broadc. Co. Ltd,** Middleton, N.S. **D.Prgr:** 10.00-04.00.
226) **R. Alleghanys Inc,** Montmagny, Que.
227) **R. CKAY Ltd,** 110 Craig St, Duncan, B.C.
228) **R. Sherbrooke Ltd,** 2655 Ouest rue King, Sherbrooke, Que.
229) **Tillsonburg Broadc. Co. Ltd,** 20 Baldwin St, Tillsonburg, Ont.
230) **R. 1540 Ltd,** 637 Collège Str, Toronto, Ont. **L.P:** Pres: J. Lombardi. **D.Prgr:** 11.00-02.00. **V.** by letter.
231) **CFOR Broadc. Ltd,** 241 W St. No, Orillia, Ont. **L.P:** St. Mgr: S. Fysh. Dir. Tec: L. Morris. **D.Prgr:** 11.00-07.00. **N:** Every h on the h. Also 11.30, 12.30, 13.30, 17.30, 23.30. **V.** by QSL-card. Recordings accepted. **F.Pl:** 50kW.
232) **Nanaimo Broadc. Ltd,** Malaspina Hotel, Nanaimo, B.C.
233) **R. Laval Inc,** 1184 St. Catherine St. West, Montreal, Que. **D.Prgr:** 24 h. **V.** by QSL-card. Recordings accepted.
234) **R. Niagara Ltd,** Park Motor Hotel, Clifton Hill, Niagara Falls, Ont. **D.Prgr:** 10.30 (Sun 12.00)-05.00. **V.** by letter. Rp.

GREENLAND (Danish Territory)

L.T: GMT — **Pr.L:** Greenlandic, Danish.

GRØNLANDS RADIO (Gov).

ADDR: Grønlands Radiofoni, Godthåb. **Te:** 1172. **Cable:** Radiofoni — **L.P:** Dir. Broadc: Fr. Nielsen. Dir. Tec: E. Hecksher. Tec. Dept: K. Sivertsen.
STATIONS: Godthåb 570kHz 562.3m 25kW; **FM:** 97.2MHz 0.25kW Godhavn 650kHz 461.5m 5kW — Frederikshåb 820kHz 365.9m 5kW.
Shortwave: Godthåb (G.C: 52.00W/64.00N), max. 10kW: 3999kHz 75.02m — 5960kHz 50.34m — 5980kHz 50.17m — 9575kHz 31.33m — 9655kHz 31.07m.
The complete prgr. is transmitted on one or more of the above freq's over two or more directional aerials covering the angle between north and east of Godthåb according to a schedule published in advance for at least one month.
HOME SCE: 10.30-11.30, 15.00-16.05 (Sat 16.30), 20.30-02.40 (Sat 03.30); Sun 11.30-12.30, 15.00-16.30, 17.00-18.00, 19.00-02.40 — **N:** W 10.30, 15.30, 21.40, 02.05; Sun 21.40, 02.05 — **Wrp:** 10.40, 16.00, 21.15, 02.00; Sun 11.30, 12.25, 16.25, 22.30, 02.00 — **Norwegian:** Sun 19.00-20.00 (only 14/4-68-30/6-68 & 4/8-68-24/11-68) — **Faroese:** Sun 20.00-21.00 (only 7/4-68-24/11-68). — **For Schools:** (21/10-68-26/3-69) Mon 12.20, 13.20, 14.20, 16.20; Tues 13.20, 14.20, 16.20; Wed 12.20, 13.20, 14.20, 16.20.
ANN: "Kalâtdlit-nunâta râdiua-Grønlands radio . . . ." **V.** by letter or card. Rp.



INT-SIG: "Sania kaligpok" (The Whaleboat "Sonja" drags Whale) played on celeste — **F.PL:** Extension of afternoon prgr's (from 19.30).

ST. PIERRE ET MIQUELON

L.T: GMT — 3 h — **Pr.L:** French.

OFFICE DE RADIODIFFUSION TELEVISION FRANCAISE

Addr: B.P. 7 St. Pierre et Miquelon. **Te:** 051. **Cable:** ORTF—**L.P:** Dir: F. Lereec. Chief Technician: M. Chevalier.
STATION: 1375kHz 218.2m 4kW.
HOME SCE. in French: W 10.00-12.00, 15.00-16.30 (Thurs 17.30, Sat 18.00), 21.30-01.00; Sun 12.30-01.00. **N:** 10.30, 15.30, 19.00 (Sun), 20.00 (Sun), 23.00. **Wrp:** 10.30, 11.00, 15.45, 23.00, 23.15 — **ANN:** "Ici Saint-Pierre et Miquelon Office de Radiodiffusion-Télévision Française". — **INT-SIG:** as France Inter (ORTF) — **V.** by letter. Recordings accepted.

UNITED STATES OF AMERICA

L.T: See World Time Table — **Pr.L:** English.

VOICE OF AMERICA (Gov.)

"THE VOICE OF AMERICA" is operated by the Broadcasting Service of the United States Information Agency. The V.O.A. seeks to promote an increased understanding of the United States among the peoples of the world and to strengthen cooperative international relations.
ADDR: Voice of America, U.S. Information Agency, Washington, D.C.20547, USA.
L.P: Dir. US Information Agency: Leonard H. Marks. Acting Dir. Broadc. Sce: Richard G. Cushing, Prgr. Mgr: Francis S. Ronalds. Eng. Mgr: Edgar T. Martin. Chief. Tec. Div: Julius Ross. Chief. Frequency Div: George Jacobs. Dir. TV (Motion Picture) Sce: Bruce Herschensohn.
STATIONS: Call-letters not used. **Delano** (250/100/200kW): Delano, California — **Dixon** (250/100/200kW): Dixon, California — **Bethany** (110 kW): Bethany, Ohio — **Greenville** (50/250/500kW): Greenville, No. Carolina — **Marathon,** Florida (50kW — 1180kc).
G.C: Delano 119.17W/35.45N; Dixon 121.45W/38.23N; Bethany 84.21W/39.21N; Greenville 77.22W/35.35N.
East Coast Stations: *Bethany. Others Greenville.

kHz	m	kHz	m	kHz	m	kHz	m
5995	50.04	6055	49.55	6190	48.47	9560	31.38
6020	49.83	6065	49.46	9525	31.50	*9565	31.36
6030	49.75	6125	48.98	9530	31.48	9565	31.36
9635	31.14	11835	25.35	15290	19.62	17845	16.81
9640	31.12	11845	25.33	*15330	19.57	17850	16.81
9650	31.09	11890	25.23	15370	19.52	17880	16.78
9670	31.02	*11890	25.23	15380	19.50	17890	16.77
*9690	30.96	11900	25.21	15395	19.49	*17890	16.77
9725	30.85	11905	25.20	15400	19.48	*21485	13.96
*9755	30.75	11920	25.17	15410	19.47	*21515	13.94
9770	30.71	*11920	25.17	15415	19.46	21585	13.90
11705	25.63	11955	25.09	15430	19.44	*21590	13.90
11740	25.55	*15160	19.79	17705	16.94	*21600	13.89
11760	25.51	15205	19.73	17710	16.94	21640	13.86
11790	25.45	15230	19.70	*17750	16.90	21650	13.86
11805	25.41	15235	19.69	17775	16.88	21740	13.80
11830	25.36	15250	19.67	*17785	16.87	26040	11.52
*11830	25.36	15280	19.63	17830	16.83	26950	11.50

West Coast Stations: *Dixon. Others Delano.

kHz	m	kHz	m	kHz	m	kHz	m
*5955	50.39	9700	30.93	17765	16.89	*21630	13.87
5965	50.29	*9735	30.82	*17820	16.84	*21695	13.83
6145	48.92	11805	25.41	*17850	16.81	*21725	13.82
*6185	48.50	11830	25.36	17850	16.81	25620	11.71
9545	31.43	11850	25.32	*17885	16.78	*25990	11.55
*9565	31.86	*11865	25.28	21460	13.98		
*9585	31.30	11875	25.26	21500	13.95		
*9605	30.82	15410	19.47	*21610	13.88		

RELAY STATIONS:
For freq's of the relay stations, refer to the individual countries: Germany, Greece, Great Britain, Liberia, Morocco, Ceylon, Philippines, Ryukyu Islands, Thailand, Vietnam.

ANN: "This is the Voice of America" is ann. in the language of the program in which it is given and in English.

INT-SIG: Theme of "Columbia, the Gem of the Ocean". The musical symbol is played at the beginning and conclusion of a transmission.

V. by QSL-card. No. Rp. required.

To Europe

ALBANIA. kHz
19.30-20.00 791/7270/11760/11870/15195/15395
21.30-22.00 7270/9680/11870/15195/15395

ARMENIAN
14.00-15.00 11710/11870/15160/15235/15310/17800/17890/21510

BULGARIAN
03.45-04.00 6055/6080/7160/7220/9615/9770
05.15-05.30 6055/6080/7160/7220/9615/9770
20.30-21.30 791/7270/9680/11870/15195/15395

CZECH-SLOVAK
04.30-04.45 1196/6055/6080/7160/7220/9615/9770
05.30-05.45 6055/6080/7160/7220/9615/9770
17.30-18.00 1196/6150
18.00-18.30 1196/5995/6150/11960/15235/15265/21740
21.30-22.00 1196/5995/6150/11960/15235/15270

ESTONIAN
15.00-15.30 5995/9660/11960/15235/15270/21740
16.30-17.00 5995/9660/11960/15235/15270/21740

GEORGIAN
13.00-14.00 11710/11870/15160/15235/15310/17800/17890/21510

GREEK
20.00-20.30 7270/9680/11870/15195/15395

HUNGARIAN
04.15-04.30 1196/6055/6080/7160/7220/9615/9770
05.45-06.00 6055/6080/7160/7220/9615/9770
20.00-21.30 1196/6150/5995/11790/11960/15235/15270

LATVIAN
16.00-16.30 9660/11960/15235/15270/21740
17.30-18.00 9660/11960/15235/15270/21740

LITHUANIAN
15.30-16.00 9660/11960/15235/15270/21740
17.00-17.30 9660/11960/15235/15270/21740

POLISH
04.45-05.00 1196/6055/6080/7160/7220/9615/9770
06.00-06.15 6055/6080/7160/7220/9615/9770
18.30-20.00 1196/5995/6150/11960/15235/15265

RUMANIAN
17.00-18.30 791/7220/11870/15195/15395

RUSSIAN
03.00-05.00 1196 (to 04.00)/6020/6040/6125/6150/7170/9560/9715
16.00-22.00 6040/7170/9530 (from 19.00)/9540/9640/11710/11760 (to 19.00)/15280/15315/17800

SERBO-CROAT
18.30-19.30 791/7270/11870/15195/15395

SLOVENE
04.00-04.15 1196/6055/6080/7160/7220/9615/9770
05.00-05.15 6055/6080/7160/7220/9615/9770

UKRAINIAN
15.00-16.00 11710/11870/15160/15310/17800/17890/21510

THE VOICE OF AMERICA

Around the World
Around the Clock
U.S. Information Agency
Washington, D.C.

To Africa

ARABIC
22.30-23.00 6040/6050/7105/7170/7270/11805/15370/15395/17775
(No. Africa) 17800
FRENCH
06.00-07.30 5955/6095/6125/6180/7175/7250/9670/9735/11705/11915
(Mon-Fri) 15195
18.30-21.00 6035/6045/7135/11850/17830/21485/21670
22.00-22.30 1196/6040/6050/7105/7170/7270/11805/15370/15395/
(No. Africa) 17775/17800
SWAHILI
17.00-18.00 15325/17740/21485/21670

To Near and Middle East

ARABIC
04.00-06.00 1259/6015/7130
17.00-21.00 1259/6015/7285
TURKISH
16.30-17.00 1259/6015/7285/11870/15195/17815

To South Asia

BENGALI
16.30-17.30 1580 (to 17.00)/11730/11930/15210/17825
HINDI
15.30-16.30 11930/15210/17825..
TAMIL
16.00-16.30 7105/11740/11835/15195/17815/21660/21690
URDU
15.00-16.00 7105/11740/11835/15195/17815/21660/21690

To Far East

BURMESE
00.30-01.30 15175/17830/21570
06.00-07.00 15155/17830/21570
11.30-14.30 (1580/11730 to 12.30)/15250/17765
CAMBODIAN
23.30-00.00 11805/15210
05.30-06.00 11865/15155/17830
13.30-14.30 (1580/11730 to 14.00)/11930/15210
CHINESE
22.00-22.30 3935/6075/7275/9560/11805/17850/21630
23.00-23.30 11730/15210
00.30-01.00 11805/15290/15395/17750/21460/25990 (00.00-00.30 & 01.00-01.30: 15395)
10.00-17.00 1178/6010/6145/7235/9545/9655/11865/11965/15175/15365/15410/17730
INDONESIA
22.30-23.30 9560/11805/15175
07.00-09.00 15155/17830/21630
11.30-12.30 11930/15210
14.30-15.30 1580/11730/11930/15210
JAPANESE
21.30-22.00 7160/17895/21460
23.30-24.00 21725
KOREAN
21.30-22.00 3935/6075/17850/21630
22.30-23.00 3935
13.00-13.30 6010/6145/9545/11865
14.00-14.30 1178
LAOTIAN
00.00-00.30 11805/15175/17830
12.30-13.00 1580/11730/11930/15210
RUSSIAN
08.00-10.00 11965/15365/15410/17730
THAI
23.30-24.00 15175/17830
11.00-11.30 15250/17765
VIETNAMESE
22.30-23.00 7275/9560/11730
03.00-05.30 11865/15155/17830
11.00-16.30 760/1140/9530/11775/15365
16.30-24.00 1140 (6185 17.00-23.00)/9530/11775

To Latin America

PORTUGUESE
21.30-22.00 11890 (15250/17705 from 21.15)
(Mon-Fri)
22.00-01.00 9530/11890/15250/17705
SPANISH
12.00-14.00 1180/9525/11890/15230/17830/21590
23.00-23.30 1180/9670/15400
(Mon-Fri)
23.30-03.00 1180/6190/9670/9725/11955/15400/17845
03.00-04.00 1180/6190/9670

PROGRAMS IN ENGLISH

To Europe **kHz**
03.30-07.30 1196 (from 05.00), 3980, 5995, 6040 (from 05.00), 7200, 7270, 9540, 9635, 9740, 11790 (to 06.00), 11835 (from 04.00)
14.00-16.30 3980, 5965 (from 15.00), 11960, 15205, 15290, 17775, 17855, 21650
16.30-22.15 1196 (to 18.00), 3980, 5965, 9760 (from 20.15), 11760 (from 19.00), 15205, 15290 (to 20.00), 17775 (to 19.00)
22.15-23.30 1196, 5965, 9760

To North Africa kHz
03.00-07.30 5965, 5995 & 9635(04.00–06.00), 9530(03.00–04.00 & 07.00–07.30), 11835(exc. 06.00–07.00)
14.00-17.00 15290, 17775, 21485
17.00–19.00 15290, 17775
19.00–20.00 15290
20.00–22.15 15205
To East Africa
03.30-06.00 7195, 7280, 9750
14.00-19.00 15445, 1787(to 17.00), 17875(from 17.00), 21670(to 17.00)
14.00-19.00 15445, 17870(to 17.00), 17875 (from 17.00), 21670 (to 17.00)
19.00–22.15 15445, 17875
To South Africa
03.00–05.00 9750
14.00-17.15 15360
To West & Central Africa
04.00–06.00 7195, 7280, 9635, 9750, 11835
06.00–07.00 6035, 7280, 9530, 9635, 11845
07.00–07.30 6035, 7280, 9635, 9750, 11835
14.00–17.00 6035, 11970, 15410, 15445, 17710, 17870
17.00–19.00 6035, 11970, 15445, 17710, 17875
19.00–22.15 6035(from 21.00), 7195, 15445, 17710(to 20.00), 17775 from 19.00), 17875
22.15–23.45 6035, 7195
To Middle East
03.00-05.00 1259(to 04.00), 7200, 9540, 9740, 11790.
05.00–07.30 1259(from 06.00), 7200, 9540, 9740, 11790(to 06.00), 15295(from 06.00)
14.00–16.30 1259, 7205, 9760, 15205, 17855, 21455
16.30–23.45 1259(from 21.00), 5965, 7205, 9760(to 20.15), 17855(to 18.00)
To South Asia
01.00–01.30 7275, 11835, 15290, 17750
01.30–02.00 7275, 11835
02.00–03.30 7275, 9740, 11790, 11835, 15295
11.30–12.00 7105, 11835, 15285
12.00–14.00 7105, 11835, 15205, 15285, 17855, 21455, 21560, 25880
14.00–15.00 7205, 15205, 15285, 17855, 21455, 25880
15.00–16.30 5965, 7205, 15205, 15285, 17855, 21455
16.30–18.00 7105, 7205, 11835, 15285, 17855, 21455
To East Asia
22.00–02.00 7160(to 22.30), 9580, 11830, 11930, 15165
09.00–16.30 7165, 9555, 11715, 11805(from 14.30), 15345, 15375(to 14.00)
To South East Asia & Indonesia
22.00–02.00 9545(to 24.00), 15165, 15210(from 00.00), 17735(from 00.00)
09.00–16.30 1580(14.00–14.30), 9615(from 15.00), 11715, 11930(to 11.15), 15155, 15345
To Oceania
22.00–24.00 17820, 21610
09.00–14.00 5955, 9735
To Latin America
23.00–03.30 9565, 9650, 11830, 11890(from 01.30), 15205.

NEWS in English: Every h on the h exc. 08.00—**NEWS in Special English:** To Far East: 14.00; To So. Asia: 14.00; To Europe/Middle East: 14.00, 17.00, 20.00, 22.00; To Africa: 14.00, 17.00, 18.00, 20.00, 22.00; To Latin America: 23.00.

ARMED FORCES RADIO AND TELEVISION SERVICE

ADDR: Deputy for Armed Forces Radio and Television, Office of Information for the Armed Forces, ASD(M), Washington, D.C. 20305—**L.P:** Dir: John C. Broger: Deputy Dir. for Armed Forces Radio and Television: Louis G. Cruciana, USAF. Officer-in-charge: Col. Robert Cranston, USA. This office exercises over-all policy control of the Armed Forces Radio and Television Service (AFRTS). The mission of AFRTS is to keep U.S. service-men informed on current events. **All broadcasts are in English.** News, Sports and other timely information is beamed overseas by shortwave tr's on the U.S. Atlantic and Pacific Coasts and a relay tr. in the Philippines. These sw-tr's serve the overseas stations and ships at sea which relay them locally. Programs other than news and locally produced programs are derived directly from the U.S. Commercial radio and TV networks. These programs are transcribed or kinescoped and shipped to the overseas stations by the Armed Forces Radio and Television Service, Los Angeles, California. **L.P:** Officer-in-Charge: Col. Robert R. Eby, USAF.

WORLDWIDE SERVICE (from Washington, D.C.)
ADDR: Armed Forces Radio and Television Service, Washington, 1117 North 19th Street, Arlington, Virginia 22209—**L.P:** Chief, LTC Harry R. Bangs. Chief Engineer: Enrico Bove.

Call		kHz	kW	Area (Beam)	h. of tr.
BY	1	9755	110	Caribbean (168°)	02.00–12.00
BY	2	15330	110	Caribbean (168°)	12.00–02.00
BY	1	21600	110	No. Africa/Eur (57°)	13.30–20.00
BY	1	15330	110	No. Africa/Eur (57°)	20.00–23.00
GA	5	15430	250	Europe (45°)	13.30–23.00
GA	5	11920	250	Europe (45°)	20.00–23.00
GA	9	15430	50	No. Africa/Eur (67°)	13.30–23.00
GA	5	15430	250	Europe (45°)	13.30–20.00
DL	5	21500	50	Far East (295°)	21.30–02.00
DL	4	17765	50	Far East (296°)	21.30–04.30
DL	4	9700	50	Far East (306°)	04.30–16.30
DL	5	15410	50	Far East (306°)	02.30–05.30
DL	6	11805	100	Far East (295°)	03.00–08.00
DL	5	5965	100	Far East (306°)	07.30–16.00
Phil		15250	10	S. E. Asia (248°)	07.00–10.30

N: On the h and half h—**Program Notes:** Each day at 06.50, 14.50,

22.50 GMT.
ANN: "This is the Armed Forces Radio and Teleivision Service"—V. by QSL-card—**PUB:** Program Schedule published quarterly; each new schedule available upon written request, no permanent mailing list maintained.

A.F.R.T.S.s OUTLETS BROADCASTING
Abbreviations: A = Army, AFKN = American Forces Korea Network, FEN = Far East Network, N = Navy, AF = Air Force, Fo = Fort, Cp = Cape.
The great majority of the stations operate from 06.00–24.00 L.T.

Location	Sce	kHz	W
ALASKAN AREA			
*Adak	AF	890	250
*Anchorage	AF	860	50
Bethel	AF	1490	50
Campion	AF	570	250
Cp Lisburne	AF	1400	10
Cp Newenham	AF	1450	50
Cp Romanzof	AF	1240	50
Cp Sarichef	AF	1400	10
Chiniak	AF	1490	25
Clear	AF	1490	50
Cold Bay	AF	1490	10
Driftwood Bay	AF	1450	50
*Fairbanks	AF	1490	50
Fire Island	AF	1240	10
*Fo Greely	AF	980	50
Fo Richardson	AF	1360	10
Fo Wainwright	AF	1360	50
Fo Yukon	AF	1340	50
Indian Mountain I	AF	1240	10
Indian Mountain II	AF	1490	50
King Salmon	AF	1580	10
*Kodiak	AF	970	250
Kotzebue	AF	960	250
Murphy Dome	AF	1340	50
Nikolski	AF	1470	10
Nome	AF	1340	50
Northeast Cape	AF	590	50
Port Heiden	AF	1450	50
Port Moller	AF	1340	50
Shemya	AF	1230	10
Site Love	AF	1240	250
Sparrevohn	AF	1240	10
Tatalina	AF	1350	50
Tok Junction	AF	1450	50
Tin City	AF	1400	10
Unalakleet	AF	1490	50
Wildwood	AF	1400	50
CANADIAN AREA			
Labrador			
*Hopedale	AF	975	25
Newfoundland			
*Argentia	N	1480	50
CARIBBEAN AREA			
Canal Zone			
*Fo Clayton	A	790	5kW
Fo Davis	A	1420	1kW
Cuba			
*Guantanamo	N	1340	1kW
Puerto Rico			
*Ramey	N	780	50
Fo Allen	N	780	50
Roosevelt Roads	N	1200	50
*San Juan	N	1200	50
EUROPEAN AREA			
Belgium		**MHz**	**W**
Brussels	A	100.8	75
Chievres	A	101.5	4kW
Greece		**kHz**	**W**
*Iraklion	AF	1570	250
*Athens	AF	1594	1kW
Italy		**MHz**	**W**
Aviano	A	106.0	50
Livorno	A	106.0	50
*San Vito	N	106.0	50
*Sigonella	AF	106.0	50
Verona	AF	106.0	50
*Vicemza	A	106.0	50
For Germany, Holland & Spain: see resp. countries.			
NORTH AFRICAN AREA			
Morocco			
*Kenitra	AF	1484	700
Libya			
*Tripoli	AF	1594	1kW
FAR EAST AREA			
Japan: see Japan;			
Korea: see Korea.			
Philippine Islands			
Baguio	AF	1300	250
*Clark, AB	AF	1520	1kW
*Macton Island	AF	1300	50
*Sangley Point	AF	1220	250
*San Miguel	AF	1520	50
*Subic Bay	AF	1300	250
Ryukyu Islands			
*Okinawa	AF	650	10kW
Taiwan: see Taiwan.			
MIDDLE EAST AREA			
Eritrea			
*Asmara	A	1475	250
Iran			
*Teheran	A	630	250
Pakistan			
*Peshawar	AF	870	25
Turkey			
*Adana	AF	1590	10
*Cigli (Izmir)	AF	1570	50
*Diyarbakir	AF	1570	50
*Karamursel	AF	1590	50
*Samsun	AF	1590	25
*Trabzon	AF	1590	25
ATLANTIC AREA			
*Ascension Island	AF	1600	1kW
*Terceira	AF	1500	250
Greenland			
*Sondrestrom	AF	1420	250
*Thule	AF	1425	1kW
Iceland			
Keflavik	N	1485	250
PACIFIC AREA			
*Eniwetok	AF	1385	250
*Anderson	N	1090	200
*Johnston Island	AF	1250	100
*Kwajalein	A	1220	1kW
*Midway Island	N	900	250
*Wake Island	AF	1490	15

INTERNATIONAL BROADCAST STATION KGEI
ADDR: P.O. Box 887, Belmont, Calif 94002. **Tel:** 591-4820. **Cable:** Febcomsfran—**L.P:** St. Mgr: J. R. Bowman. Dir. Tec: J. L. Brooks. Dir. Prgr: S. P. Jeter.

STATIONS: 250kW (Belmont: G.C: 122.14W/37.33N); 9715kHz 30.88m—11710kHz 25.62m—15240kHz 19.69m—15245kHz 19.68m. **LATIN AMERICA SCE:** W 22.15–05.00, Sun 22.15–03.00, 22.15–02.00 on 15240kHz, 02.00–05.00 (Sun 03.00) on 15245kHz. **English:** Mon-Fri 04.30–05.00; Sat 23.30–24.00; Sun 23.30–00.30. **N:** Sat 04.45—**German:** Mon, Fri 23.00–23.15—**Portuguese:** Tues, Thurs 23.00–23.15—**Russian:** Mon-Fri 22.30–23.00, Sat/Sun 23.00–23.30—**Spanish:** Mon, Tues, Thurs, Fri 23.15–04.30; Wed 23.00–04.30; Sat 00.00–04.30; Sun 00.30–03.00. **N:** Mon-Fri 23.15 (Wed 23.00), 23.55, 00.30, 01.20, 02.00, 02.30, 03.00, 03.30, 04.00.

ANN: E(Sign-on): "This is the Voice of Friendship, International Broadc. st. KGEI, San Francisco, Calif, the United States of America, owned and operated by the Far East Broadc. Company on a freq. of . . . KGEI is dedicated to the purpose of promoting good will, better understanding and friendship amongst the peoples of the Americas"—**INT-SIG:** Sign off with Nat. Athem—V. by QSL-card (send 1 IRC for surface mail, 3 IRC's for airmail).
FI: By donations, non-profit, con-comm. org's.

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RADIO NEW YORK WORLDWIDE (WNYW) (Comm.)

ADDR: 485 Madison Avenue, New York, N.Y.10022. **Te:** (212) 752-3322. **Cable:** "Radioworld"—**L.P:** Pres: Paul R. Bartlett Vice Pres: Richard W. Grefe. Secr: Robert Barker. Treasurer: Blaine Whipple. Program Director: Bert Kleinman. Dir.Tr. Eng: Lou MacDonald. Dir. Studio Eng: Joe Losgar. Dir. Sales Promotion: Irwin Belofsky. Sales Repr: John C. Butler & Co. Inc. 205 E 42nd St, New York, N.Y.10017 USA.

STATIONS: (G.C: 70.44W/42.13N): 100kW.

kHz	m	kHz	m	kHz	m	kHz	m
5985	50.13	11740	25.55	15355	19.53	17835	16.82
9575	31.33	11855	25.31	15370	19.52	17840	16.82
9615	31.20	11970	25.06	15440	19.43	21525	13.94
9690	30.96	15130	19.83	17760	16.89	21725	13.81

ENGLISH SERVICE: 16.00–24.00

To Europe/Africa/The Caribbean & The Americas:

Times	kHz	Times	kHz
16.00–18.30	15440, 21525	19.00–24.00	17835
16.00–19.00	17840, 21725	20.00–22.00	9690
16.00–19.30	17760	22.00–24.00	15130, 15440, 17760, 21525
18.30–20.00	15440	18.30–22.00	21715
19.00–22.00	21525		
19.30–22.00	11970		

N: 16.00(W), 16.30(Mon-Fri), 17.00, 17.30, 18.00, 18.30, 19.00, 19.30, 20.00(W), 20.30(W), 21.00, 21.30(Sat), 22.00, 22.30, 23.00, 23.30(W)—**Quincy Howe Comm:** Mon-Fri 17.14, 19.14, 21.14, 23.10—**Stock Market Reports:** Mon-Fri 17.22, 19.22, 21.22, 23.20—**DXing Worldwide:** Sat 17.35, Sun 19.35—**Worldwide Hit Parade:** Sat 16.30—**Music on the American scene:** Mon, Wed, Fri 17.30, 19.30—**Billy Graham Hour of Decision:** Sun. 20.00—**Mormon Tabernacle Choir:** Sun 21.10.

SPANISH SCE (to Latin America): 00.00–05.00.

Times	kHz	Times	kHz
00.00–01.00	15130, 15440, 21525	01.00–04.00	5985
		01.00–05.00	9615
00.00–02.00	11855, 15370	02.00–05.00	11740, 11855
01.00–03.30	15355	03.30–05.00	9575

N: 00.00, 01.00, 02.00, 03.00, 04.00—**Comm:** Mon-Fri 00.12, 02.12, 04.12—**Sport:** 01.11(Sat, Sun), 03.12—**Caribbean Wrp:** 00.09, 01.09, 02.09, 03.09, 04.09.

ANN: E: "This is WNYW R. New York Worldwide". Sp: "Esta es R. Neuva York, WNYW"—**V.** by QSL-card; recorded reports accepted

PUB: Illustrated Prgr. Guide offered free. Write to R. New York Worldwide. N.Y.10022. Advance prgr. and freq. information available to members of the R. New York Worldwide Listeners Club. Yearly dues: $1.00 or equivalent other currencies. Bi-monthly bulletin and club services available to all members. For further info. write to the Club, R. New York Worldwide, 485 Madison Ave, New York City 10022, USA.

WORLD INTER-NATIONAL BROADCASTERS (WINB) Inc.

ADDR: P.O. Box 88, Red Lion, Penna. 17356—**L.P:** Pres: Rev. John M. Norris. Vice Pres: J. H. Norris. Chief Eng: F. W. Wise. Technician: D. Seaks. Dir. Prgrs: S. Spyker. Dir. of Music: B. King.

STATIONS: (G.C: 76.34W/39.5N): 50kW.

11795kHz 25.43m—17720kHz 16.93m.

D.Prgr. in English (to So. Europe, Near East, Mediterranean and No. Africa): 17.00–20.00 on 17720kHz, 20.02–22.00 on 11795kHz. **N. in English:** 17.01(Mon-Fri), 20.03 (exc. Sun)—**Quote for your Life:** Wed 17.15, Thurs 21.15—**Music:** Mon-Fri 17.05, 20.15; Sat 19.00; Sun 20.03, 21.15—**ANN:** "You are listening to World International Broadcasters, R. Station, WINB, broadc. from Red Lion, Pennsylvania, United States of America, on a freq. of . . . megacycles, with transmitting power of 50.000 watts"—**V.** by QSL-card and prgr. schedule. Reports wanted—WINB is a comm. st. which purpose is to promote the God of the Bible and country.

NATIONAL ASSOCIATION OF BROADCASTERS

ADDR: 1771 N. Street N.W, Washington, D.C. 20036—**Te:** 223-1400. Purpose: The purpose of the Association is to foster and promote the development of the arts of aural and visual broadc. in all its forms to protect its members in every lawful and proper manner from injustices; to do all things necessary and proper to encourage customs and practices which will strengthen and maintain the broadc. industry to the end that it may best serve the public.

L.P: Chmn: Grover C. Cobb. Pres: V. T. Wasilewski. Vice-Pres, Radio: Charlie Stone. Secr. Treasurer: E. E. Revercomb.

COMMERCIAL STATIONS

A new format for radio was born during the past year in the United States — progressive rock. More than two dozen FM radio stations in the U.S. and Canada are now featuring a progressive rock format. The format involves a combination of songs either with meaningful lyrics (this includes folk songs) and records featuring the progressive music of groups like the Cream, the Doors, Beatles. This type of format is the hottest thing in the States and many AM radio stations are now including one or more hours top 40 of progressive rock in their regular schedule; many AM radio stations are playing some progressive rock records along with their regular records, especially as the records become so popular.

Through progressive rock formats, FM stations in general are beginning for the first time to make an impact in audience rating surveys.

There has also been a gain in stations programming country music, notably WCOP in Boston, WIL in St. Louis, and WHOO in Orlando, Fla, which all switched to country music just recently.

Within the United States, the power of a radio station is often not as important to listeners as its programming. In most major cities, radio stations concentrate their programming to appeal to a given segment of the population and there's a type of programming available to appeal to almost every listening taste. There are stations that devote their entire broadcast day to news, others that devote their time to talk programs. In most cities, the station with the largest listening audience is that station which aims its programming to teenagers and young adults—primarily the people who buy single 45 rpm records. These are mostly rock 'n' roll records and the stations base their programming on Billboard Magazine's Hot 100 Chart, which lists the top-selling single 45 rpm records in the nation. Other radio stations program music to appeal to young adults and adults and their music is selected from Billboard's top 40 Easy Listening Chart. These "good music" stations usually have the major part of the radio listening audience during morning and early afternoon listening hours before teenagers get out of school.

There are also radio stations that program nothing but country music, others that program Latin American music, others that feature rhythm and blues (aimed primarily at Negro listeners), many that program religious services and religious music, a few that feature mostly jazz, a few that program "background" — or soft relaxing — music, and a good many that program nothing but classical music.

In many cases, the signal of a radio station is directional, meaning that reception is better in the direction the station is aiming its signal.

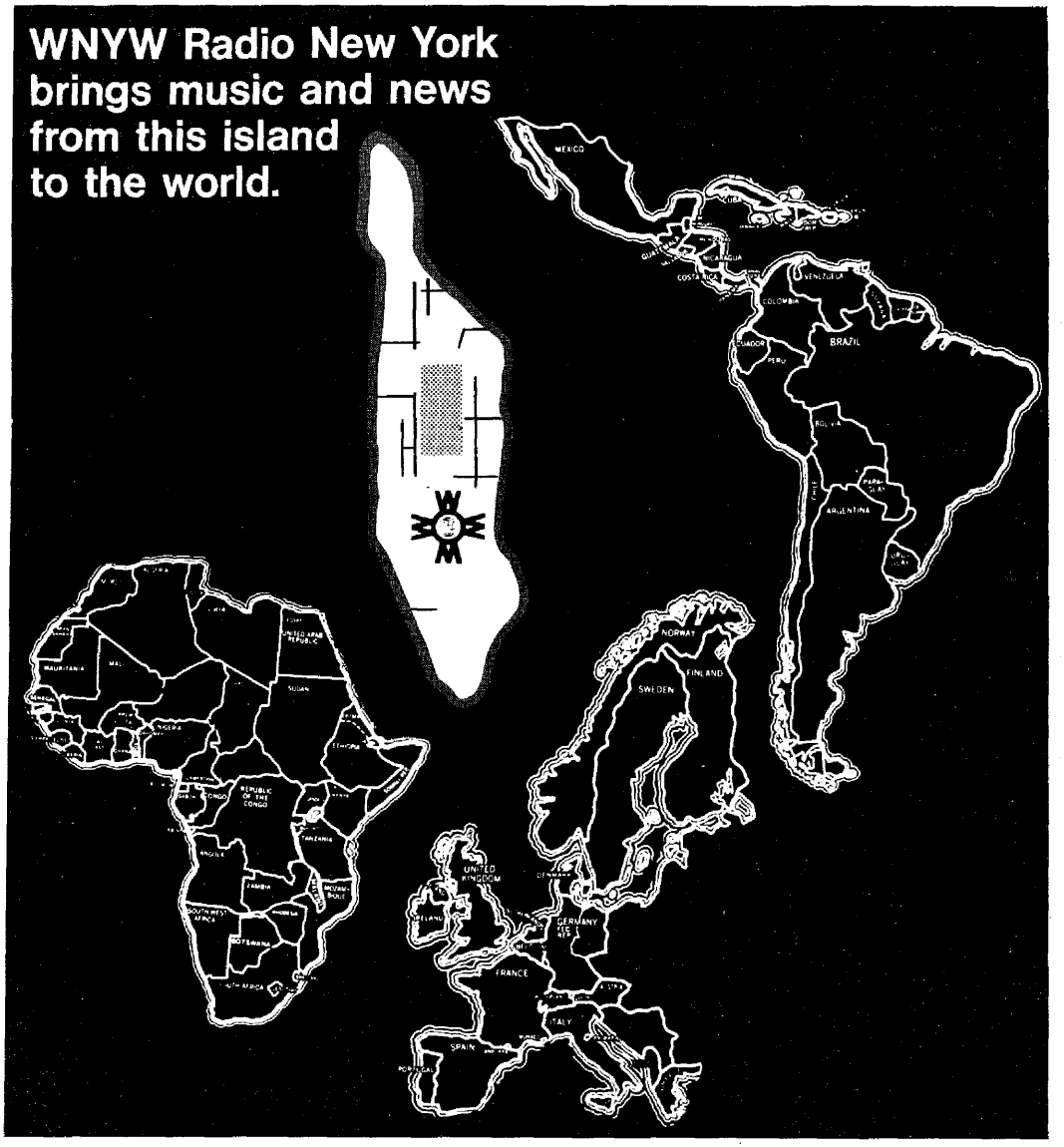
Most radio stations, because of the better broadcast conditions, cut down their power at night.

Because many radio stations are limited to daytime operation only on AM, a large number of these stations round out a broadcast schedule through an affiliated FM radio station.

Following is a list of MW stations operating with 10kW power or more. Not only is the address of the station provided, but its principal official, its operational hours (local time), but where the station is known for one type of programming, the kind of programming available on the station.

NB: Clear channel st's are listed in bold types.

	Call	kW	H of tr.
540	**kHz**		
1)	WGTO	50	Daytime
640			
2)	KFI	50	24 h
650			
3)	KORL	10	24 h
4)	WSM	50	24 h
660			
5)	KFAR	10	24 h
6)	**WNBC**	**50**	**24 h**
7)	WESC	10	Daytime
670			
8)	**WMAQ**	**50**	**24 h**
680			
9)	KBAT	50	5-1 am
10)	**KNBR**	**50**	**24 h**
11)	WCBM	10	24 h
12)	WRKO	50	24 h
13)	WPTF	50	24 h
14)	WMPS	10	24 h
15)	WCAW	10	6-1 am
690			
16)	WVOK	50	Daytime
17)	WAPE	50	24 h
18)	KKUA	10	24 h
19)	KGGF	10	6 am-Mid
20)	KHEY	10	24 h
21)	WCYB	10	Daytime
700			
22)	**WLW**	**50**	**24 h**
710			
23)	KMPC	50	24 h
24)	WGBS	50	24 h
25)	KEEL	50	5 am-Mid
26)	WHB	10	24 h
27)	WOR	50	24 h
28)	KGNC	10	24 h
29)	KIRO	50	5:30-3 am
720			
30)	**WGN**	**50**	**24 h**
740			
31)	WBAM	50	Daytime
32)	KBIG	10	Daytime
33)	KCBS	50	24 h
34)	WPAQ	10	Daytime
35)	KRMG	50	24 h
36)	KTRH	50	19 h daily
750			
37)	KFQD	10	24 h
38)	WSB	50	24 h
39)	KMMJ	10	Daytime
40)	KXL	50	Daytime
760			
41)	KGU	10	24 h
42)	WJR	50	24 h
770			
43)	KOB	50	24 h
44)	WABC	50	24 h
780			
45)	**WBBM**	**50**	**24 h**
810			
46)	KGO	50	5:30-1 am
47)	KCMO	50	24 h
48)	WGY	50	24 h
820			
49)	**WFAA**	**50**	**24 h**
50)	**WBAP**	**50**	**24 h**
830			
51)	WCCO	50	24 h
840			
52)	WHAS	50	5 am-Mid
850			
53)	WYDE	10	24 h
54)	KOA	50	5 am-Mid
55)	**WHDH**	**50**	**24 h**
56)	WIVK	50	Daytime
57)	WKIX	10	24 h
58)	WJW	10	24 h
59)	WJAC	10	5:30-1:30 am
860			
60)	KTRB	10	24 h
61)	KOAM	10	5 am-Mid
62)	WOAY	10	Daytime
870			
63)	**WWL**	**50**	**24 h**
880			
64)	WCBS	50	24 h
890			
65)	**WLS**	**50**	**24 h**
900			
66)	KFRB	10	24 h
940			
67)	KFRE	50	5:30 am-Mid
68)	WINC	50	24 h
69)	WMAZ	50/10	5:30 am-Mid
70)	KAHU	10	24 h
71)	KIOA	10	21 h
72)	WYLD	10	24 h
73)	WFNC	10	5:30 am-Mid
990			
74)	KTKT	10/1	24 h
75)	KWAM	10	Daytime
76)	WHOO	50	24 h
77)	WIBG	50	24 h
78)	WLKW	50	Daytime
79)	WNOX	10	24 h
80)	KNIN	10	5:30-1 am
1000			
81)	WCFL	50	24 h
82)	KOMO	50	5 am-Mid
1010			
83)	KLRA	10/5	4:30 am-Mid
84)	KSAY	10	Daytime
85)	WINQ	50	Daytime
86)	WGUN	50	Daytime
87)	WMOX	10	4 am-Mid
88)	KXEN	50	Daytime
89)	KRVN	25	Daytime
90)	WINS	50	24 h
91)	WFGW	50	Daytime
92)	KAWA	10	Daytime
1020			
93)	KGBS	50	Daytime
94)	KSWS	50	5:30 am-Mid
95)	KDKA	50	24 h



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1030		
96) **WBZ**	**50**	**24 h**
97) KCTA	50	Daytime
1040		
98) **WHO**	**50**	**24 h**
1050		
99) WHN	50	24 h
1060		
100) KPAY	10	5:30 am-Mid
101) WNOE	50	24 h
102) KYW	50	24 h
1070		
103) WAPI	50	19 h
104) WFLI	10	24 h
105) KNX	50	24 h
106) WIBC	50/10	24 h
107) KFDI	10	24 h
108) WDIA	50	24 h
109) WKOW	10	5 am-Mid
1080		
110) KSCO	10	5:30 am-11:35 pm
111) WTIC	50	24 h
112) KWJJ	50	24 h
113) KRLD	50	24 h
114) WBIE	10	Daytime
115) WVCG	10/0.5	24 h
1090		
116) KAAY	50	24 h
117) KING	50	24 h
118) WBAL	50	24 h
119) WQIK	50	Daytime
1100		
120) KFAX	50	Daytime
121) WHLI	10	Daytime
122) **WKYC**	**50**	**24 h**
1110		
123) KRLA	50	24 h
124) WALT	10	Daytime
125) KFAB	50	24 h
126) WBT	50	24 h
1120		
127) KMOX	50	24 h
1130		
128) KWKH	50	5-1 am
129) WCAR	50	24 h
130) WDGY	50	24 h
131) WNEW	50	24 h
132) WISN	50	5:20-12.30 am
1140		
133) **KRAK**	**50**	**24 h**
134) WMIE	10	24 h
135) KGEM	10	24 h
136) KSOO	10	5-1 am
137) WRVA	50	24 h
1160		
138) WJJD	50	Daytime
139) **KSL**	**50**	**24 h**
1170		
140) WCOV	10	5 am-Mid
141) KCBQ	50	24 h
142) KVOO	50	24 h
143) WWVA	50	24 h
144) KLOK	10/5	24 h
1180		
145) WHAM	50	24 h
1190		
146) KEX	50	24 h
147) KLIF	50/1	24 h
148) WANN	10	Daytime
149) WLIB	10	Daytime-1h after sunset
150) WOWO	50	24 h
1200		
151) WOAI	50	24 h
1210		
152) WCAU	50	24 h
153) WKNX	10	Daytime
1220		
154) WGAR	50	5:30-1 am
1500		
155) KXRX	10/5	24 h
156) WTOG	50	24 h
157) WJBK	50/5	24 h
158) KSTP	50	5-1 am
159) KPIR	10	Daytime
1510		
160) KALF	10	Daytime
161) WNLC	10	5:30-12:10
162) WLAC	50	24 h
163) KGA	50	am-Mid
164 WAUK	10	Daytime
1520		
165) KACY	10	18 h
166) WKBW	50	24 h
167) WTHE	10	Daytime
168) KOMA	50	24 h
169) KYMN	50	24 h
170) KXKW	10	5:25 am-Mid
1530		
171) KFBK	50	5 am-Mid
172) WCKY	50	24 h
173) KGBT	50	5 am-Mid
1540		
174) KBUY	50	24 h
175) KPOL	50/10	24 h
176) KXEL	50	24 h
177) WPTR	50	24 h
178) WRCP	50	Daytime
179) KASA	10	Daytime
1550		
180) KKHI	10	6 am-Mid
181) KWIC	10	Daytime
182) WRIZ	10	Daytime
183) WMOO	50	Daytime
184) KQXI	10	Daytime
185) KOKA	10	4 am-Mid
186) WBSC	10	6 am-11:15 pm
187) WOKJ	50	5 am-Mid
188) WYOU	10	Daytime
189) WYNX	10	Daytime
1560		
190) WWGM	10	Daytime
191) KPMC	10	24 h
192) WQXR	50	6-12:07 am
1580		
193) KDAY	50	Daytime
194) KYND	50	Daytime
195) WAXU	10	Daytime
196) WPAC	10	Daytime
197) WPGC	10	6 am-Mid
198) WSRF	10	24 h

WFAA and WBAP share same frequency; WFAA has the 820 frequency 7:30 am-12:30 pm and 5 pm-midnight; WBAP takes it midnight-7:30 am and 12:30-5 pm. Whichever station is not using the 820 50kW frequency, operates at 570 with 5kW and a directional signal.

1) Box 23, Cypress Gardens, Fla. 33880. Pres: Stanley E. Hubbard.
2) 141 N. Vermont Ave, Los Angeles, Calif. 90054. Pres. & Gen. Mgr: George A. Wagner. Prgr: Good music.
3) Box 8250, Honolulu, Haw. 96815. Vice Pres. & Gen. Mgr: Milton L. Hibdon.
4) Box 100, Nashville, Tenn. 37202. Pres: John H. DeWitt Jr. Prgr: Good music (day), country music (night).
5) Lathrop Bldg, Fairbanks, Alsk. 99701. Pres: A. O. Bramstedt.
6) 30 Rockefeller Plaza, New York, N.Y. 10020. St. Mgr: Lee S. Hanson. Prgr: Good music, talk.
7) Box 2447, Greenville, S.C. 29602. Pres: Robert A. Schmid. Prgr: Good music, country music.
8) Merchandise Mart, Chicago, Ill. 60654. Pres: Harry D. Jacobs Jr. Prgr: Good music.
9) Box 2216, San Antonio, Tex. 78206, Vice Pres. & Gen. Mgr: Ed Montray. Prgr: Rock 'n' roll.
10) Fox Plaza, Civic Center, San Francisco, Calif. 94102. Pres: Dale Moudy. Prgr: Good music. V. by QSL-card or letter.
11) 2610 N. Charles St, Baltimore, Md. 21218. Vice Pres. & Gen. Mgr: Donald Kelly. Prgr: Good music.
12) 21 Brookline Ave, Boston, Mass. 02116. Vice Pres. & Gen. Mgr: Perry S. Ury. Prgr: Rock 'n' roll.
13) Box 1511, WPTF Bldg, Raleigh, N.C. 27602. Gen. Mgr: Richard H. Mason. Prgr: Good music, Talk, Classical Music. V. by QSL-card.
14) Radio Center, 112 Union, Memphis, Tenn. 38101. Pres: Harold Krelstein. Prgr: Rock 'n' roll.
15) Box 4318, Charleston, W. Va. 25304. Pres: E. M. Johnson.
16) Box 2468, Birmingham, Ala. 35201. Pres: Iralee W. Benns. Prgr: Rhythm & Blues, News. V. by QSL-card.
17) 1404 Prudential Bldg, Jacksonville, Fla. 32207. Pres: Mrs. Frances U. Brennan. Prgr: Rock 'n' roll.
18) 830 Ala Moana Blvd, Honolulu, Haw. 96813. Vice Pres. & Gen. Mgr: H. G. Fearnhead. Prgr: Rock 'n' roll.
19) 8th & Elm Sts, Coffeyville, Kan. 67337. Mgr: Robert L. Pratt. Prgr: Good music, country music, Rock 'n' roll.
20) 2419 N. Piedrias, El Paso, Tex. 79930. Gen. Mgr: Nancy W. Sleighel. Prgr: Country music.
21) Box 1009, Bristol, Va. 24201. Pres. & Gen. Mgr: Robert H. Smith.
22) 140 W. 9th St, Cincinnati, Ohio 45202. Gen. Mgr: Charles K. Murdock. Prgr: Good music, News, Classical music, American music. V. by QSL-card. Rp.
23) 5939 Sunset Blvd, Los Angeles, Calif. 90028. Vice Pres. & Gen. Mgr: Lloyd C. Sigmon. Prgr: Good music.
24) 710 Bldg. on Brickell Ave, Miami, Fla. 33131. Vice Pres. & Gen. Mgr: Bernard E. Neary. Prgr: Good music.
25) Box 7096, Shreveport, La. 71107. Pres: Frederic Gregg Jr. Prgr: Rock 'n' roll.
26) Pickwick Hotel, 10th & McGree, Kansas City, Mo. 64106. Gen. Mgr: R. G. Reames. Prgr: Rock 'n' roll.
27) 1440 Broadway, New York, N.Y. 10018. Gen. Mgr: Robert S. Smith. Prgr: Talk. V. by letter. Recordings accepted.
28) Box 751, Amarillo, Tex. 79105. Gen. Mgr: Bob Watson. Prgr: Good music.
29) 1520 Queen Anne Ave. N, Seattle, Wash. 98109. Vice Pres. & Gen. Mgr: W. F. Tucker. Prgr: Good music.
30) 2501 Bradley Pl, Chicago, Ill. 60618. Gen. Mgr: Charles E. Gates. Prgr: Good music, Talk, News. V. by QSL-card. Recordings accepted.
31) Box 1447, Montgomery, Ala. 36102. Pres. & Gen. Mgr: W. J. Brennan.
32) 6540 Sunset Blvd, Los Angeles, Calif. 90028. Studios: Avalon, Catalina Isl, Hollywood. Vice Pres. & Gen. Mgr: Alan Fischler. Prgr: Soft background music.
33) Sheraton Palace Hotel, San Francisco, Calif. 94105. Vice Pres. & Gen. Mgr: Neil E. Derrough. Prgr: News.
34) Box 907, Airy, N.C. 27030. Owner: Ralph Epperson.
35) 1502 S. Bounder, Tulsa, Okla. 74103. Gen. Mgr: Ron B. Blue.
36) Rice Hotel, Houston, Tex. 77052. Vice Pres. & Gen. Mgr: Frank Stewart. Prgr: Good music.
37) Box 1040, Anchorage, Alaska 99501. Pres: Miller C. Robertson.
38) 1601 W. Peachtree St. N.E, Atlanta, Ga. 30309. Gen. Mgr: Elmo Ellis. Prgr: Good music, Talk, News. V. by QSL-card or letter. Recordings accepted.
39) Division at Center St, Grand Island, Neb. 68801. Pres: Don Searle.
40) Box 22106, Portland, Ore. 97222. Gen. Mgr: Lester M. Smith. Prgr: Good music, news.
41) Box 3110, Honolulu, Haw. 96802. Vice Pres. & Gen. Mgr: James Hawthorne. Prgr: Good music.
42) 2200 Fisher Bldg, Detroit, Mich. 48202. Vice Pres. & Gen. Mgr: Daniel B. Burke. Prgr: Good music, talk, news, classical music. V. by QSL-card. Rp.
43) Box 1351, Albuquerque, N.M. 87103. Pres: Stanley E. Hubbard.
44) 1330 Ave. of the Americas, New York, N.Y. 10019. Gen. Mgr: Don B. Curran. Prgr: Rock 'n' roll, news. V. by QSL-card. Recordings accepted.
45) 630 N. McClurg Court, Chicago, Ill. 60611. Vice Pres. & Gen. Mgr: William C. O'Donnell.
46) 277 Golden Gate Ave, San Francisco, Calif. 94102. Gen. Mgr: Edward F. McLaughlin.
47) 125 E. 31st St, Kansas City, Mo. 64108. Vice Pres. & Gen. Mgr: E. K. Hartenbower. Prgr: Good music.
48) 1400 Balltown Rd, Schenectady, N.Y. 12309. Gen. Mgr: Robert Gilbertson. Prgr: Good music.
49) Communications Center 820, Dallas, Tex. 75202. Gen. Mgr: Mike Shapiro. Prgr: Good music.
50) Box 1780, Fort Worth, Tex. 76101, St. Mgr: Roy I. Bacus. Prgr: Good music.
51) 625 2nd Ave. S, Minneapolis, Minn. 55402. Exec. Vice Pres: Larny Haeg. Prgr: Good music.
52) 6th & Broadway, Louisville, Ky. 40202. Sales Dir: James Topmiller.
53) Suite 520, 2101 Magnolia Ave, Birmingham, Ala. 35205. Gen. Mgr: Berk Fraser.
54) Box 5012, Denver, Colo. 80203. Pres. & Gen. Mgr: William Grant. Prgr: Good music.
55) 50 Morrissey Blvd, Boston, Mass. 02125. Pres: George Akerson. Prgr: Good music. V. by QSL-card.
56) Box 10207, Knoxville, Tenn. 37919. Pres. & Gen. Mgr: James A. Dick.
57) Box 12526, Raleigh, N.C. 27605. Vice Pres. & Gen. Mgr: Carl Glicken.
58) 1101 Euclid Ave, Cleveland, Ohio 44115. Vice Pres. & Gen. Mgr: James P. Storer. Prgr: Good music.
59) WJAC Bldg, Hickory Lane, Johnstown, Pa. 15905. Gen. Mgr: Alvin D. Schrott. V. by letter. Recordings accepted.

The **INTERNATIONAL RADIO CLUB OF AMERICA**, the leading U.S. **medium-wave** club, publishes a 20-page bulletin 34 times annually that includes tip and QSL sections, listings of new MW stations around the world and call and frequency changes, a section for members' letters, and special features. We publish lists of regular frequency checks and all-night stations, and reception report forms in Spanish, French, Portuguese and English. QSL contests are held annually, and achievement certificates are awarded. Free sample bulletin from Don Erickson, 6059 Essex St., Riverside, California 92504 USA.

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61) Box F, Pittsburg, Kan. 66762. Pres: E. Victor Baxter.
62) Box 251, Oak Hill, W. Va. 25901. Owner & Gen. Mgr: Robert Thomas Jr.
63) Roosevelt Hotel, New Orleans, La. 70140. Gen. Mgr: William Dean. Prgr: Good music, news, classical music. V. by QSL-card.
64) 51 W. 52nd St, New York, N.Y. 10019. Gen. Mgr: Joseph T. Dembo. Prgr: News. V. by QSL-card.
65) 360 N. Michigan Ave, Chicago, Ill. 60601. Vice Pres. & Gen. Mgr: Gene Taylor. Prgr: Rock 'n' roll.
66) Box 950, Fairbanks, Alaska 99701. Pres. & Gen. Mgr: A. G. Hiebert.
67) T. W. Patterson Bldg, Fresno, Calif. 93721. Gen. Mgr: Ethan Berstein.
68) 100 Biscayne Tower, Miami, Fla. 33132. Vice Pres. & Gen. Mgr: Frank Craig. Prgr: Good music.
69) Bankers Bldg, Macon, Ga. 31201. Gen. Mgr: Albert H. Sanders Jr. Prgr: Good music, Rock 'n' roll, talk, news. V. by QSL-card.
70) Box 1007, Waipahu, Oahu, Haw. 96797. Gen. Mgr: Harry En Chu.
71) 8th & Keo Way, Des Moines, Iowa. 50309. Pres: Burrell Small.
72) Box 19124, New Orleans, La. 70119. Gen. Mgr: John Revisore. Prgr: Rhythm & Blues.
73) 1009 William Clark Rd, Fayetteville, N.C. 28303. Pres: Victor Dawson.
74) Box 5585, Tucson, Ariz. 85703. Gen. Mgr: George P. Lasley. Prgr: Rock 'n' roll. V. by QSL-card. Rp.
75) Box 12107, Memphis, Tenn. 38112. Gen. Mgr: E. W. Bie. Prgr: Country music.
76) Radio WHOO Rd, Orlando, Fla. 32808. Vice Pres. & Gen. Mgr: Bob Hood.
77) Seven Penn Center, Philadelphia, Pa. 19103. Vice Pres. & Gen. Mgr: Joseph T. Conway. Prgr: Rock 'n' roll.
78) 228 Weybosset St, Providence, R.I. 02903. Vice Pres. & Gen. Mgr: Mowry Lowe. Prgr: Good music.
79) 4400 Whittle Springs Rd, N.E, Knoxville, Tenn. 37917. Gen. Mgr: Stan Hagan.
80) Box 787, Wichita Falls, Tex. 76307. Pres. & Gen. Mgr: Bob H. Walker.
81) Marina City Commercial Bldg, 300 N. State St, Chicago, Ill. 60610. Mgr: Lew Witz. Prgr: Rock 'n' roll.
82) 100 4th Ave. N, Seattle, Wash. 98109. Pres. & Gen. Mgr: W. W. Warren. Prgr: Good music.
83) 416 Union National Bank Bldg, Little Rock, Ark. 72201. Pres. & Gen. Mgr: Leonard Coe. Prgr: Country music, good music. V. by QSL-card or letter. Recordings accepted. Rp.
84) 433 Natoma St, San Francisco, Calif. 94103. Pres: Grant Wrathall. Prgr: Country music.
85) Box 1010, Hillsboro Hotel, Tampa, Fla. 33601. Vice Pres. a Gen. Mgr: Hal Levin.
86) 217 Ponce de Leon Ave, Decatur, Ga. 30031. Pres: John Fulton. Prgr: Country music. V. by QSL-card.
87) Box 1511, Meridan, Miss. 39301. St. Mgr: Eddie Smith.
88) Box 28, St. Louis, Mo. 63166. Gen. Mgr: Richard J. Kasten. Prgr: Country music, rlg. prgrs. V. by letter.
89) 104 W. 8th St, Lexington, Neb. 68850. Gen. Mgr: Max Brown. Prgr: Good music, country music, talk, news. V. by letter. Recordings accepted. **F.Pl:** 880kHz 50kW 05.00 am-Mid by Dec. 68.
90) 90 Park Ave, New York, N.Y. 10016. Gen. Mgr: Charles F. Payne. Prgr: News.
91) Box 158, Black Mountain, N.C. 28711. Gen. Mgr: Donald Bailey.
92) Box 482, Waco, Tex. 76703. Gen. Mgr: Del Morton. Prgr: Country music.
93) 338 S. Western Ave, Los Angeles, Calif. 90005. Gen. Mgr: Dale Peterson. Prgr: Country music.
94) Box 670, Roswell, N.M. 88201. Owner & Gen. Mgr: John A. Barnett.
95) 1 Gateway Center, Pittsburgh, Pa. 15222. Gen. Mgr: Al Heacock. Prgr: Good music.
96) 1170 Soldiers Field Rd, Boston, Mass. 02134. Gen. Mgr: James Ligthfoot. Prgr: Rock'n'roll.
97) 402 S. Chaparri, Corpus Christi, Tex. 78403. Pres. & Gen. Mgr: Bob Kent.
98) 1100 Walnut St, Des Moines, Iowa 50308. Vice Pres. & Gen. Mgr: Robert Hartner.
99) 400 Park Ave, New York, N.Y. 10022. Pres. & Gen. Mgr: John C. Moler. Prgr: Good music.
100) Box 369, Chico, Calif. 95926. Gen. Mgr: Ned Richardson.
101) 529 Bienville St, New Orleans, La. 70130. Mgr: Robert Magruder. Prgr: Rock'n'roll.
102) 1619 Walnut St, Philadelphia, Pa. 19103. Gen. Mgr: Wallace Dunlop. Prgr: News.
103) Box 1310, Birmingham, Ala. 35201. Vice Pres. & Gen. Mgr: Donald D. Wear.
104) O'Grady Dr, Chattanooga, Tenn. 37401. Mgr: William Benns Jr.
105) 6121 Sunset Blvd, Los Angeles, Calif. 90028. Vice Pres. & Gen. Mgr: George Nicholaw. Prgr: Good music.
106) 2835 N. Illinois St. Indianapolis. Ind. 46208. Pres. & Gen. Mgr: Richard Fairbanks. Prgr: Good music, talk, news. V. by QSL-card.
107) Box 1402, Wichita, Kan. 67201. Pres. & Gen. Mgr: F. F. Lynch.
108) Box 12045, Memphis, Tenn. 38112. Vice Pres. & Gen. Mgr: Bert Ferguson. Prgr: Rhythm & Blues.
109) Box 100, Madison, Wisc. 53701. Vice Pres. & Gen. Mgr: Tony Moe.
110) Box 1080, Santa Cruz, Calif. 95060. Gen. Mgr: C. V. Berlin.
111) 3 Constitution Plaza, Hartford, Conn. 06115. Vice Pres. & Gen. Mgr: Robert Tyrol. Prgr: Good music, talk, news. V. by QSL-card.
112) 931 S. W. King Ave, Portland, Ore. 97205. Gen. Mgr: George Sanders. Prgr: Country music.

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116) Box 1790, Little Rock, Ark. 72203. Gen. Mgr: Pat Walsh Jr.
117) 320 Aurora Ave. N, Seattle, Wash. 98109. St. Mgr: James W. Phillips. Prgr: Good music.
118) 3800 Hooper Ave, Baltimore, Md. 21211. Vice Pres. & Gen. Mgr: Alred Burk. Prgr: Soft background music.
119) Box 6400, Jacksonville, Fla. 32205. Pres. & Gen. Mgr: Marshall Rowland. Prgr: Country music.
120) 1470 Pine St. San Francisco, Calif. 94109. Pres: A. J. Krisik. Prgr: Religious.
121) 384 Clinton St, Hempstead, N.Y. 11550. Gen. Mgr: Paul Godofsky.
122) 1403 E. 6th St, Cleveland, Ohio 44114. St. Mgr: Dino Ianni. Prgr: Rock'n'roll.
123) 1401 S. Oak Knoll, Pasadena, Calif. 91109. Gen. Mgr: Lawrence Webb.
124) Box 1341, Tampa, Fla. 33602. Pres. & Gen. Mgr: Bob Leonard.
125) 5010 Underwood Ave, Omaha, Neb. 68132. Vice Pres. & Gen. Mgr: Lyell Bremser.
126) 1 Julian Price Pl, Charlotte, N.C. 28208. Pres: Charles H. Crutchfield.
127) 1144 Hampton Ave, St. Louis, Mo. 63139. Gen. Mgr: Robert Hyland. Prgr: Talk.
128) Box 1130, Shreveport, La. 71102. Gen. Mgr: Jack Timmons. Prgr: Good music, country music, talk, news, Rhythm & Blues. V. by QSL-card.
129) 500 Temple Ave, Detroit, Mich. 48201. Gen. Mgr: H. Y. Levinson. Prgr: Good music.
130) Box 6606, Minneapolis, Minn. 55420. Gen. Mgr: Phillip W. Trammell. Prgr: Rock'n'roll.
131) 565 Fifth Ave, New York, N.Y. 10017. Vice Pres. & Gen. Mgr: Dave Croninger. Prgr: Good music.
132) 759 N. 19th St, Milwaukee, Wisc. 53233. Vice Pres. & Gen. Mgr: Herman A. Schneider. Prgr: Soft background music.
133) Box 6347, Sacramento, Calif. 95860. Pres. & Gen. Mgr: Manning Slater. Prgr: Country music. V. by QSL-card or letter. Rp.
134) 1448 N.W. 36th St, Miami, Fla. 33142. St. Mgr: Jack Nobles. Prgr: Spanish.
135) Box 4278, Boise, Idaho 83705. St. Mgr: R. C. Weisenburger.
136) 205 N. Phillips Ave, Sioux Falls, S. D. 57102. Pres. & Gen. Mgr: Morton H. Henkin.
137. Box 1516, Richmond, Va. 23212. Gen: Mgr: John B. Tansey. Prgr: Good music, talk, news. V. by QSL-card. Recordings accepted. Rp.
138) 8 S. Michigan Ave, Chicago, Ill. 60603. Vice Pres. & Gen. Mgr: George Dubinetz. Prgr: Country music.
139) Broadcast House, Salt Lake City, Utah 84111. Pres: Arch L. Madsen.
140) Box 2505, Montgomery, Ala. 36105. St. Mgr: Mike Layman.
141) Box 1629, San Diego, Calif. 92112. Gen. Mgr: Len Sable. Prgr: Rock'n'roll.
142) Box 1349, Tulsa, Okla. 74105. Gen. Mgr: Jack Cresse. Prgr: Good music, talk, news. V. by QSL-card. Recordings accepted.
143) Hawley Bldg, Wheeling, W.Va. 26003. Gen. Mgr: J. Ross Felton. Prgr: Country music. V. by QSL-card. Recordings accepted. Rp.
144) Box 6177, San Jose, Calif. 95122. Gen. Mgr: Bill Spendlove. Prgr: News, Rhythm & Blues. V. by letter. Rp.
145) 350 E. Ave, Rochester, N.Y. 14604. Pres. & Gen. Mgr: William F. Rust Jr. Prgr: Good music, Soft background music, Classical music. V. by QSL-card. Recordings accepted.
146) 2130 S.W. Fifth Ave, Portland, Ore. 97201. Vice Pres. & Gen. Mgr: Fulton Wilkins. Prgr: Good music, news, American music. V. by QSL-card. Recordings accepted. Rp.
147) 2120 Commerce St, Dallas, Tex. 75201. Gen. Mgr: Al Lurie. Prgr: Rock'n'roll. V. by QSL-card. Rc. to Chief Eng.
148) Box 631, Annapolis, Md. 21404. Pres. & Gen. Mgr: Morris H. Blum. Prgr: Rhythm & Blues.
149) 310 Lennox Ave, New York, N.Y. 10027. Gen. Mgr: Harry Novik. Rhythm & Blues.
150) 128 W. Washington Blvd, Ft. Wayne, Ind. 46802. Gen. Mgr: C. Vadagrift.
151) Box 2641, San Antonio, Tex. 78205. Vice Pres. & Gen. Mgr: Guy Harris.
152) City & Monument Aves, Philadelphia, Pa. 19131. Gen. Mgr: John O. Downey. Prgr: Talk.
153) 5200 State Rd, Saginaw, Mich. 48603. Pres. & Gen. Mgr: William J. Edwards.
154) Hotel Slater Hilton, 12th & Euclid Ave, Cleveland, Ohio 44101. Vice Pres. & Gen. Mgr: Carl E. George.
155) Box 167, San Jose, Calif. 95103. Gen. Mgr: Joe. E. Levitt. Prgr: Good music, news.

"HOW TO LISTEN TO THE WORLD 1969"

to be published March, 1969

156) Broadcast House, 40th & Brandywine St., N.W. Washington, D.C, 20016. Vice Pres. & Gen. Mgr: Lloyd W. Dennis Jr. Prgr: Good music, some jazz.
157) 7441 Second Blvd, Detroit, Mich. 48202. Gen. Mgr: William F. Sherry. Prgr: Good music, talk, news. V. by QSL-card. Recordings accepted.
158) 3415 University Ave, St. Paul, Minn. 55114. Vice Pres. & Gen. Mgr: Stanley S. Hubbard. Prgr: Good music.
159) Box 542, Eugene, Ore. 97401. Pres: Charles H. Wilson.
160) Box 1510, Mesa, Ariz. 85201. Gen. Mgr: Sheldon Engel.
161) Box 1031, New London, Conn. 06321. St. Mgr: Irving Lowenthal.
162) 161 4th Ave, N, Nashville, Tenn. 37219. Vice Pres. & Gen. Mgr: James M. Ward. V. by QSL-card.
163) Box 141, Spokane, Wash. 99210. Pres: Grady A. Sanders.
164) 330 Wisconsin Ave, Waukesha, Wis. 53186. Gen. Mgr: David M. Dunahoo.
165) Box 1520, Port Hueneme (Suburb of Oxnard) Calif. 93031. Gen. Mgr: Ronald Thompson.
166) 1430 Main St, Buffalo, N.Y. 14209. Gen. Mgr: Peter C. Newell. V. by QSL-card. Rp.
167) Roosevelt Field, Garden City, L.I, N.Y. 11530. Vice Pres. & Gen. Mgr: Hartley L. Samuels. Prgr: Country music.
168) Box 1520, Oklahoma City, Okla. 73101. Gen. Mgr: James H. Erwin. Prgr: Rock'n'roll, Rhythm & Blues, news. V. by letter Rp.
169) Box 22125, Portland, Ore. 97222. Pres: J. Elliot Knoll. Prgr: Soft background music, some good music.
170) Box J, Laffayette, La. 70501. Vice Pres. & Gen. Mgr: James V. Hoffpauir. Prgr: Country music.
171) 21st & Q, Sacramento, Calif. 95804. Mgr: Arthur C. Williams. Prgr: Good music, news. V. by QSL-card. Recordings accepted.
172) 501 Carew Tower, Cincinnati, Ohio 45202. Pres: C. H. Topmiller. Prgr: Good music.
173) Drawer 711, Harlingen, Tex. 78551. Vice Pres. & Gen. Mgr: Otis Shumate.
174) Box 2049, Ft. Worth, Tex. 76115. Gen. Mgr: Roy L. Lemons. Prgr: Rock'n'roll.
175) 5700 Sunset Blvd, Hollywood, Calif. 90028. Vice Pres. & Gen. Mgr: C. W. Bill Weaver. V. by QSL-card or letter. Recordings accepted. Rp.
176) Box 2395, Waterloo, Iowa 50705. Vice Pres. & Gen. Mgr: Al Laval. V. by QSL-card. F.Pl: 100kW.
177) Box 1540, Albany, N.Y. 12205. St. Mgr: Howard S. Shulman. Prgr: Rock'n'roll.
178) 2043 Locust St, Philadelphia, Pa. 19103. Prgr: Country music.
179) 1445 W. Baseline Rd, Phoenix, Ariz. 85009. Pres. & Gen. Mgr: Georg Wilson.
180) St. Francis Hotel, San Francisco, Calif. 94119. Vice Pres. & Gen. Mgr: Elmer Wayne. Prgr: Classical music. V. by QSL-card.
181) 5065 W. 2100 S, Salt Lake City, Utah 84120. Gen. Mgr: Jack Adamson.
182) Box 186, Miami, Fla. 33145. Pres: Jack Roth. Prgr: Good music.
183) Box 1402, Mobile, Ala. 36601. Pres. & Gen. Mgr: Samuel David. Prgr: Rhythm & Blues.
184) Box 1, Arvada, Colo. 80002. Gen. Mgr: Richard P. McKee.
185) Box 1754, Shreveport, La. 71102. Pres: S. J. Hepburn. Prgr: Rhythm & Blues.
186) Box 639, Bennettsville, S.C. 29512. Vice Pres. & Gen. Mgr: A. K. Harmon.
187) Box 3228, Jackson, Miss. 39207. Gen. Mgr: Charles Fletcher. Prgr: Rhythm & Blues.
188) Box 1988, Tampa, Fla. 33601. Pres. & Gen. Mgr: Art Reuben.
189) Box 526, Smyrna, Ga 30080. Gen. Mgr: L. N. Polk.
190) Capitol Towers Bldg, Nashville, Tenn. 37202. Vice Pres. & Gen. Mgr: Rodger May. Prgr: Soft background music.
191) Box 1709, Bakersfield, Calif. 93302. Mgr: L. A. Schamblin.
192) 229 W. 43rd St, New York, N.Y. 10036. Gen. Mgr: W. Neiman. Prgr: Classical music, news.
193) 1532 3rd St, Santa Monica, Calif. Gen. Mgr: Albert Files. Prgr: Rhythm & Blues.
194) Box 15040, Phoenix, Ariz. 84108. Gen. Mgr: Dorothy Owens.
195) Box 759, Lexington, Ky. 40501. Pres. & Gen. Mgr: Robert Johnson.
196) Box 717, Patchogue, L.I, N.Y. 11772. Gen. Mgr: Lee Gilbert.
197) Box 8550, Washington, D.C. 20027. Vice Pres. & Gen. Mgr: Robert Howard. Prgr: Rock'n'roll.
198) Box 8067, Ft. Lauderdale, Fla. 33310. Pres: Gene Milner. Prgr: Good music.

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(A division of American Broadcasting Companies Inc).
ADDR: 1330 Avenue of the Americas, New York, N.Y. 10019. **L.P:** Pres: W. Schwarts. Vice Pres: Sales: H. Granath. Adv. Dir: D. Schlosser. Vice Pres. St. Rel: E. Mullin. Mgr. St. Rel: F. Atkinson. Vice Pres. Programming: J. Thayer. Prgr. Dir's: J. Thayer (Entertainment), J. Cook (Contemporary), A. Smallens (FM). For executives of parent company, see television listings. Radio has four divisions — FM, Contemporary, Personality and Information.
ABC-owned stations: WABC, New York, (Pres: H. Neal Jr); KABC, Los Angeles; KGO, San Francisco; WXYZ, Detroit; KQV, Pittsburgh; WLS, Chicago; KXYZ, Houston.

CBS RADIO NETWORK

(A division of Columbia Bc. System Inc).
ADDR: 51 W. 52nd St, New York, N.Y. 10019. **L.P:** Pres: Clark B. George. Vice Pres. Network: Gen. Mgr: G. J. Arkedis. Netw. Sales Vice Pres: B. Lochridge. St. Adm. & Spot Sales Dir: S. C. Digges. Development Dir: M. Webster. R. News Dir: E. Stone. Vice Pres. Affl. Rel: Sherrill Taylor. For executives of parent company, see television listings.

CBS owned and operated stations: WCBS, New York; WBBM, Chicago; KCBS, San Francisco; KMOX, St. Louis; KNX, Los Angeles; WEEI, Boston; WCAU, Philadelphia.

NABC RADIO NETWORK

(A division of North-American Broadc. Corpo).
ADDR: The Jackson Bldg, 1929 Irving St, San Francisco, Calif. 94122. **Te:** 731-6639. **Cable:** Broadc. **L.P:** Operations Mgr: Regan O'Brien. Gen. Mgr: Michael K. Erickson.

NBC RADIO NETWORK

(A division of National Broadc. Co.).
ADDR: 30 Rockefeller Plaza, New York, N.Y. 10020. **L.P:** Pres: Stephen B. Labunski. Vice Pres. Sales: G. H. Gallup. Vice Pres. Programming: R. Wogan. Vice Pres. R. Div: Marion Stephenson. For executives of parent company, see television listings.
NBC owned and operated stations: WNBC, New York (Vice Pres. & Gen. Mgr: Stephen Riddleberger); WRC, Washington; WJAS, Pittsburgh; WMAQ, Chicago; WKYC, Cleveland; KNBR, San Francisco.

MUTUAL BROADCASTING SYSTEM INC.

(Subs. of Mutual Broadcasting Corp).
ADDR: 135 W. 50th St, New York, N.Y. **L.P:** Chmn of Board: John P. Fraim. Pres: Robert R. Pauley. Vice Pres. & Nat. Dir. Sales: William A. Cummings.

EDUCATIONAL ORGANIZATIONS

Department of Health, Education and Welfare, Office of Education, Washington D.C. 20202: Office of the Under Secretary: I. A. Nestingen. **The Educational Television Facilities Programme** designed to encourage establishment of new and improved bradcasr facilities through financial grants based on matching funds.
Office of Education, Media Research and Dissemination Branch, Ag. Dir: Th. D. Clemens. Educ. Media Specialist: Mrs. G. Broderick, provides a variety of services by professional staff specialists to schools and college officials, st. operators, and others, as requested. Under Title VII of the National Defense Education Act, finances research and experimentation in the educ. uses of all media; disseminates information on the subject through conferences, seminars, workshops, and publication of pertinent bulletins.

NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS (NAEB).

Headquarters: 1346 Connecticut Ave, Washington, D.C. 20036. **Te:** (202) 667-6000 — **L.P:** Pres: W. G. Harley; Asst. to Pres: James A. Fellows; Exec. Dir. of T.V: Chalmers Marquis; Exec. Dir. of Radio: Gerrold Sandler.
Formed in 1925 as the Association of College and University Broadcasting Stations, the National Association of Educational Broadcasters today includes four divisions — the Educational TV Stations, National Education Radio, Instructional Division (through which the NAEB serves universities, colleges, schools and educational organizations which operate licensed or closed circuit stations) and the Individual Member Division (which serves the professional career needs of those in educational broadcasting). Since 1950, the NER division has operated a tape network, supplying member st's with programming material not only from member st's but also from domestic and foreign producers like the BBC, the CBC, the RAI, Radio Nederland, Radio Belgium and the French Broadcasting System. The ETS division operates the ETS Program Wystem. The Indiana University, to make available outstanding locally-produced programs on a nationwide basis. This service, together with that of National Educational TV, and independent organization primarily responsible for production and distribution of cultural and public affairs, programmes, provides educational TV stations with programming. The ETS division also publishes a monthly newsletter for for ETV station managers — The ETS News.
There are now 163 radio st. members, 134 TV st. embers. In addition, the NAEB has 2400 individual members. According to FCC regulations, non-comm. educational FM st's have no restrictions on transmission time.

THE NORTH-AMERICAN BROADCASTING CORPORATION

(NABC — a non profit, educ. organization).
Headquarters: Jackson Bldg. 1929 Irving St, San Francisco, Calif. 94122. **Te:** 731-6630. (Transcription Sce, Telefilm Distribution Center & Netw. at above address.) **L.P:** Chmn of Board of Dir's: Allan Bruce Erickson. Departmental Heads: Gen. Mgr. (Radio): Michael K. Erickson. Transcription Sce: Cathy Myers. Engineering: Ron V. Pelt. TV-Department: James E. Hunt. International Relations: Sandy Harris.
Stations: 389 educational organizations owning and operating a total of 422 stations (radio) and 43 stations (television), such stations being full members of the NABC. Plus 217 stations (radio) operated commercially which relay programs from NABC on a sustaining (non-commercial) basis. Such stations have Associate Membership.
Fi: By Membership Fees. Also support from outside sources for special projects.
Activities & Functions: The NABC operates both a network and a Transcription Sce. which duplicates, via tape, and distributes to member stations seven hours of programming per week (average). NABC maintains close relations with many international broadcasters and participates actively in program exchanges, news projects and cultural affairs. Several overseas broadcasters release programs through the NABC and these include the NZBC and ORTF. NABC is a Charter Corporate Member of the I.B.S.

Policy: It is the policy of the NABC to promote international goodwill, cultural exchanges and better programming in the public interest and in the interest of international understanding. The NABC is independent politically and financially from any government and endeavours to present a fair, impartial and objective viewpoint on world issues. Its programming policies attract new listeners because of balanced content, creating cultural interest where none existed before. Its long-term plans include the establishment of a Production/Announcing and General Training Cnter for personnel, a Drama Repertory Company, Symphony, Concert and Light Music Orchestras (House Orchestras) and overseas offices and studios.
Regional Centers: Northfield, Minnesota (Mgr: Mr. P. Peterson); Delaware, Ohio (Mgr: Mr. Gaukel); Provo, Utah (Mgr: Mr. Lee Stott); New York, N.Y. (Mgr: Dr. H. Chesnais); Pacifica, California (Mgr: Dr. W. R. Cleaves).
Overseas Prg. Exchange Sce: P.O. Box 94122, San Francisco. Head: Mr. T. R. Fischer.

NATIONAL ASSOCIATION OF FM BROADCASTERS

ADDR: 665 Fifth Ave, New York, N.Y. **L.P:** Chmn of the Board. Gary M. Gielow. Pres: Abe Voron. Exec. Secr: Edward S. Kenehan. Dir. of Adm: Lois Heuer. Vice Pres: David H. Polinger. **Purpose:** To promote the FM medium. The NAB has an FM division, but a group of young, energetic FM broadcasters formed the NAFMB, seeking to improve the medium faster. One of their all-out campaigns during the past year, for example, was to get more radios capable of receiving FM in cars and this campaign has been very successful. Under strong leadership and the active interest of its members, FM radio has made long strides in the past year or so. FM, for the first time, is being accepted as commercial radio by advertisers. Also, FM radio now features all kinds of formats, even rock'n'roll; it is no longer the quality medium for the élite or the music buff; it is a mass-medium for everyone. There have also been strides in stereo, and 710 FM st's now broadcast in multiplex stereo, according to the NAFMB, with more stations changing to stereo every day.

GOVERNMENT AGENCY:

THE FEDERAL COMMUNICATIONS COMMISSION (FCC)—

the licensing agency for broadc. st's.

ADDR: 1919 "M" Street N.W, Washington, D.C. 20554. **L.P:** (key officials): Chmn: Rosel Hyde. Exec. Dir: M. D. Paglin. Secr: B. F. Waple. Chief, Broadcast Bureau: G. S. Smith.
The FCC is an independent Federal agency, composed of seven Commissioners appointed by the Pres. by and with the advice and consent of the Senate. One of its major activities is the general regulation of broadc, now visual as well as aural. This regulation may be divided into three phases: 1) The allocation of spectrum space to the different types of broadcast services, 2) Considerations to build and operate individual stations, 3) Regulating their operation.
Call letters: International agreement provides for the national identification of the radio st. by the first letter or first two letters of its assigned call signal, and for this purpose apportions the alphabet among different nations. USA st's use the initial letters K.N. and W, exclusively, and part of the A series. Broadcast st's are assigned call letters beginning with K or W. Generally speaking, those beginning with K are assigned to st's west of the Mississippi River and in the territories and possessions, while W is assigned to broadcast st's east of the Mississippi.

Number of broadc. st's in the USA as of June 1st, 1968

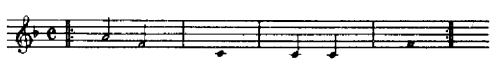
	Authorized	Operating
AM	4281	4178
FM Commercial	2080	1808
FM Educational	377	333
TV Commercial	832*	610
TV Educational	186	123
TV Translators	2426	2119

* Of the 832 authorized commercial TV stations, 518 are VHF, 314 are UHF.

UNITED NATIONS

UNITED NATIONS RADIO

ADDR: United Nations, New York. **Cable:** Unations, New York. **Te:** Plaza 4-1234. Telex 222422 — **L.P:** Asst. Secr. Gen, Office of Public Information: A. Abdul Hamid. R. & Visual Services Div: Dir: J. d'Arcy. Deputy Dir: D. Ritchie. Chief of Operations & TV: M. Hayward. Chief of Radio: J. Quijano. Chief of International Communications: J. C. Nichols.
INT-SIG: Music Chime.



ANN: "This is the United Nations". This introductory phrase is used in all official UN prgs. in all of the languages concerned.

Message to listeners: The R. & Visual services Division is anxious to establish contact with as many listeners as possible and will gladly acknowledge all communications. Upon request, new correspondents are sent a prgr. sched. and some general information about the United Nations and the Specialized Agencies. Correspondence and requests for copies of the schedule of UN broadcasts should be addressed to the Director of the nearest UN Information Centre. These are located in

United Nations — Costa Rica

Accra, Addis Ababa, Algiers, Asuncion, Athens, Baghdad, Bangkok, Beirut, Belgrade, Bogota, Buenos Aires, Bujumbura, Cairo, Colombo, Copenhagen, Dakar, Dar Es Salaam, Geneva, Kabul, Karachi, Kathmandu, Khartoum, Kinshasa, Lagos, La Paz, Lima, Lomé, London, Manila, Mexico City, Monrovia, Moscow, New Delhi, Paris, Port Moresby, Port-of-Spain, Prague, Rabat Rangoon, Rio de Janeiro, Rome, San Salvador, Santiago, Sydney, Tananarive, Teheran, Tokyo, Tunis, Washington, Yaounde.

Request for copies of the sched. of UN broadc, which can be heard in the United States should be addressed to: Radio and Visual Services Divisions, United Nations, New York.

BROADCASTS FROM THE UNITED NATIONS

G = Greenville; T = Tangier; B = Bethany; D = Delano; DI = Dixon; M = Monrovia; P = Philippines; I = We. Ce. & So. Europe; II = We. & Ce. Africa; III = No. Africa/Mid East; IV = Latin America; V = Brazil; VI = Ce. & So. Africa; VII = So. Europe/Mid. East/No. Africa; VIII = We. Africa; IX = Ea. Africa; X = Malaysia/Singapore; XI = Australia/New Zealand; XII = So. Ea. Asia — *) Mon-Fri; **) Tues-Sat.

Schedule

Times	Area	kHz/tr	L
18.00-18.30*	I	15245 (T)	
		15415/21640/21650(G)	a
18.30-18.45*	II	15415/21640/21650(G)	b
18.45-19.00*	III	15245(T), 15415/21640	
00.30-01.00**	IV	9640/11740(G), 15160(B)	Spanish
01.00-01.15**	V	11890/15250/17705(G)	Portuguese
02.30-02.45**	X	15210/17830(P)[1]	**English**
05.30-06.00**	VI	9530/11845(G)	c
06.30-07.00**	VII	11760/15325(T)[2]	d
07.00-07.15**	VIII	9530/11845(G)	e
07.45-08.00**	IX	17780/21520(M)[3]	f
08.45-09.00**	XI	5985/9735(DI)	**English**
10.00-10.30**	XII	15225/17825(P)[4]	g
10.30-10.45**	XII	15250(P)[4]	Chinese
10.45-11.00**	XII	15250(P)[4]	Indonesian

[1]) transmitted to P on 17895 (DI) & 21460kHz(D) — [2]) tr. to T at 05.00 on 9530/11845kHz(G) — [3]) tr. to M at 07.00 on 9530/11845kHz (G) — [4]) tr. to P at 06.30-07.30 on 11865(D)/15110kHz(DI)

a) **N:** English 18.00, French 18.05, Spanish 18.10, Greek 18.15, Turkish 18.20, English 18.25 — b) **N:** English 18.30, French 18.35, Spanish 18.40 — c) **N:** French 05.30, English 05.45 — d) **N:** English 06.30, Hebrew 06.35, French 06.40, Italian 06.45, Serbo-Croat 06.50 — e) **N:** French 07.00, English 07.07 — f) **N:** English 07.45, Swahili 07.50, Somali 07.55.

BROADCAST OF MEETINGS OF THE GENERAL ASSEMBLY AND THE SECURITY COUNCIL WHEN IN SESSION.

AM Meeting	**kHz (Beams)**	**tr.**
14.30-17.00 to Europe/Africa[5]	15410 (45°)/21650(94°)	G
14.30-17.00 to Latin America[6]	17785 (168°)/21515(168°)	B
PM Meeting		
19.00-23.00 to Europe/Africa[5]	15415(45°)	G
19.00-23.00 to Europe/Africa[5]	21650(94°)	G
23.00-01.30 to Europe/Africa[5]	11920(67°)	G
23.30-06.00 to Europe/Africa[5]	6065(45°)	G
23.30-01.45 to Europe/Africa[5]	15415(94°)	G
01.30-05.00 to Europe/Africa[5]	11920(94°)	G
19.00-22.30 to Latin America[6]	21515(168°)	B
19.00-02.00 to Latin America[6]	17750(168°)	B
02.00-06.00 to Latin America[6]	9710(168°)	B

[5]) in English & French; [6]) in Spanish.

Prg's from the United Nations are broadcast by st's in more than 120 countries and territories. The times of these broadcasts may be ascertained from local newspaper or from the stations concerned — R. st's in the US and Canada receive the prg's direct by line from the Nations Headquarters or by recording — The R. and Visual Services Division prepares and distributes recorded prg's in Amharic, Arabic, Bengali, Chinese, Duri, Dutch, English, French, German, Greek, Hebrew, Hindi, Hungarian, Indonesian, Italian, Malay, Malgache, Persian, Polish, Portuguese, Pushtu, Russian, Serbo-Croat, Sinhalese, Spanish, Swahili, Tagalog, Thai, Turkish and Urdu.

Letters from listeners are welcome.

New listeners are sent some general information about the United Nations upon request — Correspondence and request for particulars of the United Nations broadcasts from Headquarters should be addressed to: Radio and Visual Services Division, United Nations, New York.

CENTRAL AMERICA

BAHAMAS (British)

L.T: GMT — 5 h — **Pr.L:** English.

BAHAMAS BROADCASTING AND TELEVISION COMMISSION (Gov. Comm)

ADDR: P.O. Box 1347, Nassau. **Te:** 2-4623. **Cable:** "Broadcasts" — **L.P:** Mgr: R. Bethel. Dir. Tec: L. Cartwright. Adm. Officer: W. N. Wisdom

STATIONS: ZNS1 1540kHz 195m 10kW — ZNS2 1240kHz 242m 1kW.

HOME SCE: On 1540kHz: 24 h. **N:** 13.15, 18.15, 00.15 — On 1240kHz: 12.00 (Sun 13.00)-04.00.

ANN: "This is st. ZNS, Nassau." "This is ZNS2, the Voice of New Providence" — **V.** by letter. Recordings accepted.

BARBADOS

L.T: GMT — 4 h — **Pr.L:** English.

CARIBBEAN BROADCASTING CORPO. (Gov. Comm.)

ADDR: P.O. Box 780, Barbados. **Te:** 92041. **Cable:** Cabroco.

STATION (System Marconi) 785kHz 10kW.

HOME SCE. in English: 09.30-06.00 — **N:** 10.50, 11.00*, 12.00, 13.00*, 14.00, 15.00, 16.00*, 17.00*, 18.00, 19.00, 20.00*, 21.00*, 22.00, 23.00*, 00.00, 01.00, 03.00* — * = BBC.

ANN: "This is R. Barbados — 780 on your dial" — **V.** by letter. Rp. Recorded or written re. in E — **FI:** By adv — **AD:** 12 min's per h.

BARBADOS REDIFFUSION SERVICE LTD. (Public Co.)

ADDR: River Rd, Bridgetown. **Te:** 0811. **Cable:** Rediffusion — **D.Prgr:** 09.58-03.03 — **N (BBC):** 11.00, 16.00, 21.00, 23.00, 03.00.

COSTA RICA

L.T: GMT — 6 h — **Pr.L:** Spanish.

DEPARTAMENTO CONTROL NACIONAL DE RADIO

ADDR: Apt. 3483, San José. **Cable:** Ranac. **Te:** 7339.

EMPRESARIOS RADIODIFUSORAS ASOCIADOS (ERA)

ADDR: Apt. Postal 111, San José.

STATIONS: All st's comm. exc. 4), 21)(Rlg), 17), 37)(cultural).

Short Waves:

	Call	kHz	m	kW	Name & h of tr.
1)	TIRHB2	4784	62.71	1	R. Popular, San José: 12.00-06.00
2)	TIQ	5954	50.39	1	R. Casino, Limon: 11.55-06.00
3)	TIFC	6037	49.69	2	Faro del Caribe, San José: 12.00-19.00, 22.00-04.00
4)	TIJCV	6150	48.78	1	R. Guapiles: 12.00-06.00
5)	TIHBG	6206	48.33	1	R. Reloj, San José: 12.00-06.00
6)	TIRICA	9615	31.20	50	La Voz de la Victor, San José: 11.00-05.00
3)	TIFC	9645	31.10	2	Faro del Caribe: as 6037kHz.

Medium Waves

Call: TI——, °) also on shortwave.

	Call	kHz	kW		Call	kHz	kW
7)	CAL	525	0.25	3)	FC	°1075	5
8)	SBJ	550	2	13)	RN	1100	1
9)	WA	575	1	11)	GHP	1150	1
10)	AV	600	1	13)	CA	1175	2
6)	RICA	°625	100	2)	Q	°1200	1
11)	BAS	650	1	23)	GM	1225	1
12)	JC	675	1	11)	LM	1250	1
5)	HB	°700	2	24)	RE	1275	1
13)	LX	725	1	25)	JJH	1300	1
14)	RA	750	1	26)	RG	1325	1
15)	W	775	4.5	27)	JRA	1350	1
16)	GHP	800	3.5	11)	MAR	1375	1
17)	OS	825	1.5	28)	LG	1400	1
18)	UCR	850	10	29)	CI	1425	1
1)	SRHB	°875	1	30)	MMC	1450	1
19)	CS	900	6	31)	DVC	1475	1
20)	CM	925	1	11)	L3	1500	1
21)	ECO	950	1	32)	EEAW	1525	1
19)	RS	975	4	33)	MET	1500	2
11)	GPH	1000	1	11)	JJC	1575	1
22)	AC	1025	2	34)	ACA	1600	1
11)	GHP	1050	1				

Short Waves:

1) Apt. 341, San José. **Te:** 5607. **L.P:** Dir: R. Barahona. Secr: Miss M. C. A. Barahona. **D.Prgr: N:** every h on the h. **Ann:** "Esta es R. Popular de Costa Rica". **V.** by QSL-card. Re. in Sp. E.

2) Apt. 287, Puerto Limon. **L.P:** Dir: L. Villalobos. **D.Prgr:** English 23.00-24.00, 04.30-06.00. **V.** by letter.

3) Apt. 2710, San José. **Te:** 1250. **L.P:** Mgr: F. Cabezas B. Dir. Tec: W. Griffin. Dir. Prgr: P. Delgado. **D.Prgr:** 12.00-19.00, 22.00-03.00. **N:** 12.30, 13.00, 14.00, 14.30. English: 03.00-04.00. **Ann:** Sp: "Faro del Caribe, emisora cultural de Costa Rica". "This is TIFC, the Lighthouse of the Caribbean in San José, Costa Rica". **V.** by QSL-card and letter. Recordings accepted. **Pub:** Prgr. sched. free on request.

4) Guápiles. **L.P:** Dir: P. Jesús C.

5) Apt. 341, San José. **L.P:** Dir: R. Barahona G. **V.** by letter.

6) Apt. 1079, San José. **Te:** 213737. **Cable:** Voz Victor. **L.P:** Dir. Gen: S. March Palau. **D.Prgr: N:** every half h and 12.00, 17.00, 21.00, 03.00. **Ann:** "Estan Uds. escuchando la R. Internacional La Voz de Victor en 625kc onda larga y 9615kc onda corta". **FM:** 102.14MHz. **V.** by QSL-card. Recordings accepted.

Medium Waves:

7) **R. Rumbo,** Cartago. **L.P:** Dir: C. Lafuente F.

8) **R. Libertad,** Apt. 4075, San José. **L.P:** Dir: S. Bermudez J.

9) **Cadena Musical,** Apt. 854, San José. **L.P:** Dir: J. Castro C.

10) **R. Tic-Tac,** San José. **L.P:** Dir: A. Vargas.

11) **R. Monumental,** Apt. 800, San José. **L.P:** Dir: L Pinto S. (650 San José, 875 Liberia, 1000 R. Mil, Tibás, 1050 San I. de El General, 1150 C. Quesada, 1250 Nicoya, 1375 Limón, 1500 Liberia, 1575kHz Palmares).

12) **R. Sonora,** San José.

13) **R. Columbia,** Apt. 708, San José. **L.P:** Dir: C. Alfaro (725 San José, 1100 San I. de El General, 1175kHz Puntarenas).

14) **Radiolandia,** Apt. 2525, San José. **L.P:** Dir: R. Aguilar V.

15) **R. City,** Apt. 835, San José. **L.P:** Dir: A. Murolo C.

16) **R. Centro,** San José.

17) **R. Titania,** Apt. 512, San José. **L.P:** Dir: M. Sotela.

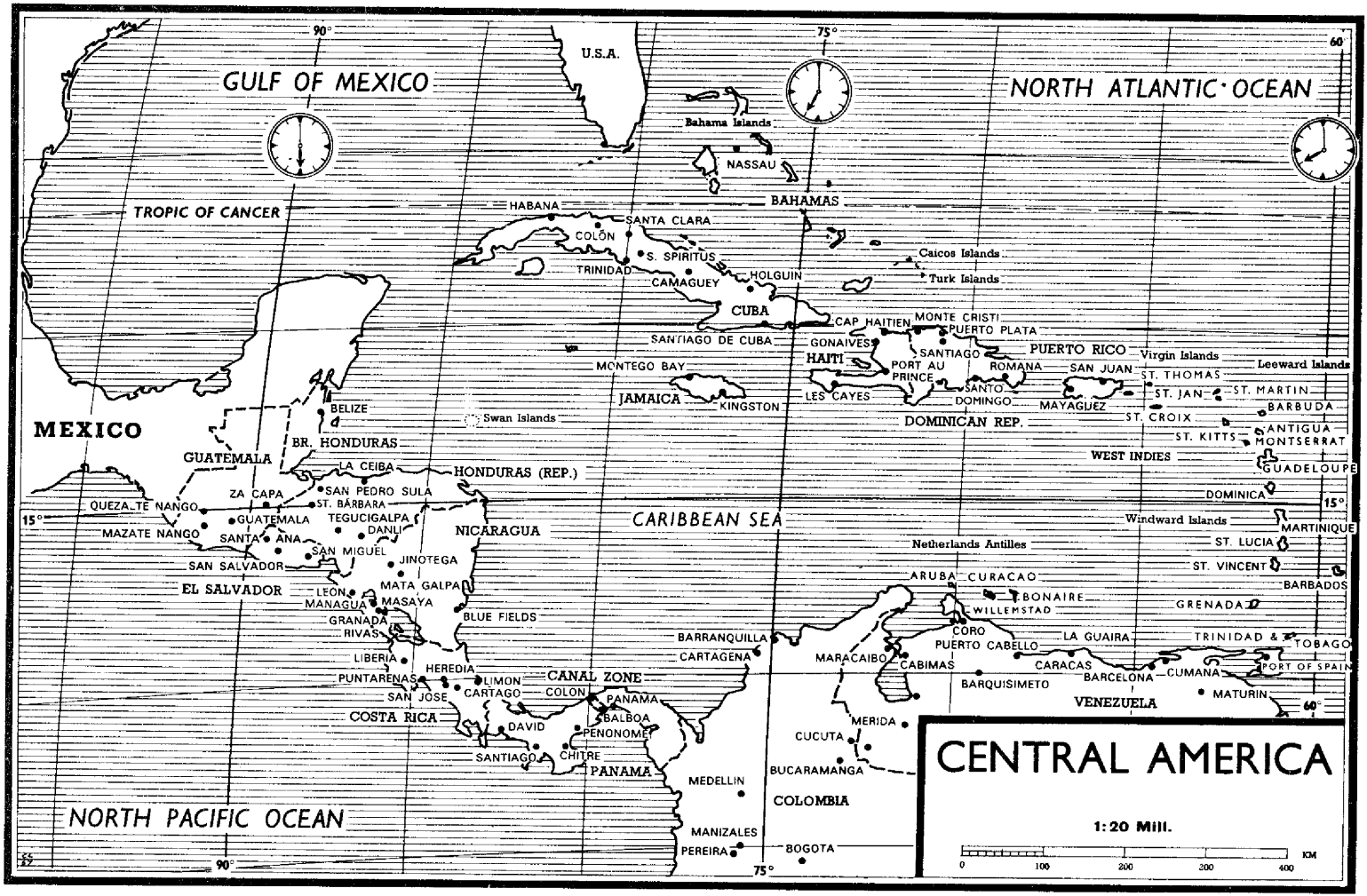
18) **R. Universitaria,** San Pedro. **L.P:** Dir: I. Bonilla.

19) **R. Atenea,** San José. **L.P:** Dir: O. Sotela.

20) **R. Juvenil,** San José.

21) **R. Eco,** Tibás. **L.P:** Dir: J. F. Lafuente.

22) **R. Fides,** Apt. 1933, San José. **L.P:** Dir: P.A. Troyo.


CENTRAL AMERICA
1:20 Mill.
KM
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400
GULF OF MEXICO
NORTH ATLANTIC OCEAN
NORTH PACIFIC OCEAN
CARIBBEAN SEA
U.S.A.
TROPIC OF CANCER
MEXICO
GUATEMALA
BELIZE
BR. HONDURAS
HONDURAS (REP.)
EL SALVADOR
NICARAGUA
COSTA RICA
PANAMA
CANAL ZONE
COLOMBIA
VENEZUELA
CUBA
HAITI
JAMAICA
DOMINICAN REP.
PUERTO RICO
BAHAMAS
Bahama Islands
Caicos Islands
Turk Islands
Swan Islands
Virgin Islands
Leeward Islands
WEST INDIES
Netherlands Antilles
Windward Islands
NASSAU
HABANA
SANTA CLARA
COLÓN
S. SPIRITUS
TRINIDAD
CAMAGUEY
HOLGUIN
SANTIAGO DE CUBA
CAP HAITIEN
MONTE CRISTI
PUERTO PLATA
GONAIVES
SANTIAGO
PORT AU PRINCE
ROMANA
SAN JUAN
ST. THOMAS
ST. JAN
ST. MARTIN
BARBUDA
ANTIGUA
MONTSERRAT
GUADELOUPE
DOMINICA
MARTINIQUE
ST. LUCIA
ST. VINCENT
BARBADOS
GRENADA
TRINIDAD & TOBAGO
PORT OF SPAIN
MONTEGO BAY
KINGSTON
LES CAYES
SANTO DOMINGO
MAYAGUEZ
ST. CROIX
ST. KITTS
ARUBA
CURACAO
BONAIRE
WILLEMSTAD
CORO
PUERTO CABELLO
LA GUAIRA
CARACAS
BARCELONA
CUMANA
MATURIN
BARQUISIMETO
MARACAIBO
CABIMAS
MERIDA
CUCUTA
BUCARAMANGA
BARRANQUILLA
CARTAGENA
MEDELLIN
MANIZALES
PEREIRA
BOGOTA
BELIZE
LA CEIBA
SAN PEDRO SULA
ZA CAPA
ST. BARBARA
QUEZALTE NANGO
GUATEMALA
TEGUCIGALPA
MAZATE NANGO
SANTA ANA
DANLI
SAN MIGUEL
SAN SALVADOR
JINOTEGA
LEON
MATA GALPA
MANAGUA
MASAYA
GRANADA
RIVAS
BLUE FIELDS
LIBERIA
HEREDIA
PUNTARENAS
LIMON
CARTAGO
SAN JOSE
COLON
PANAMA
BALBOA
DAVID
PENONOME
SANTIAGO
CHITRE
90°
75°
60°
15°

Costa Rica — Dominican Republic

23) **R. Victoria,** Cartago. **L.P:** Dir: R. Castro.
24) **R. Emmaus,** San Vito de Java. **L.P:** Dir: M. Cambronero.
25) **R. Alajuela,** Alajuela. **L.P:** Dir: R. Herrera.
26) **R. Columbia,** Liberia. **L.P:** Dir: H. Reuben A.
27) **R. Sideral,** San Ramón. **L.P:** Dir: O. Acosta.
28) **R. Cariari,** Limón. **L.P:** Dir: L. Grau V.
29) **R. Sinai,** San I. de El General. **L.P:** Dir: P. A. Coto.
30) **R. Golfito,** Golfito. **L.P:** Dir: L. Pinto S.
31) **R. San Carlos,** Apt. 46, C. Quesada. **L.P:** Dir: M. del Valle
32) **R. Turrialba,** Turrialba. **L.P:** Dir: H. Saborío.
33) **R. Meteorologico,** Minist. Agricultura, San José.
34) **La Voz de Costa Rica,** San José. **L.P:** Dir: A. Céspedes A.

CUBA

L.T: GMT −5 h — **Pr.L:** Spanish.

MINISTERIO DE COMUNICACIONES

Direccion General de Telecomunicaciones.
ADDR: Plaza de la Revolúcion "Jose Marti", La Habana.

INSTITUTO CUBANO DE RADIODIFUSION

Edif. Radiocentro, Ly 23, Vedado, Habana.
Medium Waves: Call: CM—

	Call	kHz	kW	Location
1)	AN	550	30	Pinar del Rio
1)	—	560	1	Las Mercedes
1)	HI	570	10	Santa Clara
1)	JM	580	0.5	Ciego de Avila
1)	W	590	150	La Habana
2)	—	590	5	Baracoa
1)	KV	600	150	Holguin
1)	—	600	1	Trinidad
3)	HQ	630	60	Santa Clara
3)	KU	630	2	Santiago
3)	Q	640	50	La Habana
4)	HG	660	1	Santa Clara
4)	AF	670	1	Pinar del Rio
4)	KP	670	50	Holguín
4)	HN	680	1	Cienfuegos
4)	DB	680	1	Santiago
4)	BC	690	50	La Habana
4)	JT	700	1	C. de Avila
1)	GN	720	30	Colón
3)	KJ	730	10	Holguin
3)	JL	740	10	Camaguey
3)	AQ	740	1	Pinar del Rio
5)	DC	760	10	La Habana
5)	JS	760	1	Ciego de Avila
2)	DC	770	10	Holguin
1)	JN	780	1	Camaguey
6)	CH	790	10	La Habana
5)	KL	800	2	Santiago
4)	JE	810	1	Camaguey
7)	CA	830	10	La Habana
8)	HW	840	1	Santa Clara
2)	KC	850	2	Santiago
9)	BL	860	1	La Habana
10)	JY	860	1	Ciego de Avila
1)	DN	870	10	Guantánamo
11)	JB	880	1	Camaguey
11)	AG	880	1	Consolación del Sur
11)	HD	890	1	Santa Clara
11)	DZ	890	0.25	Santiago
3)	JV	900	1	Ciego de Avila
11)	BF	910	10	La Habana
12)	AS	920	0.25	Pinar del Rio
11)	HB	920	1	Sancti Spiritus
11)	GX	930	1	Matanzas
1)	KN	930	1	Santiago
2)	DJ	950	0.25	Guantánamo
8)	HE	950	0.25	Fomento
5)	GL	959	0.25	Matanzas
13)	CK	980	5	La Habana
14)	HT	990	1	Sancti Spiritus
10)	FA	1000	1	Camaguey
11)	KM	1012	5	Holguin
15)	BN	1020	0.25	Nueva Gerona
3)	DW	1030	0.25	Guantánamo
12)	AC	1030	0.25	Cristóbal
16)	KW	1040	0.25	Santiago
17)	BQ	1060	5	La Habana
18)	HS	1080	0.1	Caibarién
2)	DD	1090	0.25	Las Mercedes
19)	HU	1100	0.5	Cienfuegos
20)	DL	1120	1	Holguin
11)	HA	1130	1	Santa Clara
21)	JK	1140	0.5	Camaguey
22)	JP	1190	0.5	Ciego de Avila
5)	KD	1200	1	Holguín
5)	HK	1210	1	Cruces
23)	GY	1220	5	Perico
24)	AD	1230	0.25	Artemisa
25)	JX	1230	0.25	Morón
23)	GW	1240	0.25	Matanzas
2)	KE	1240	0.25	Victoria de la Tunas
5)	KA	1250	0.25	Guantánamo
26)	HP	1250	0.25	Placetas
5)	CI	1260	5	La Habana
5)	DE	1260	0.25	Bayamo
5)	JG	1270	1	Camaguey
5)	DP	1280	0.25	Victoria de las Tunas
5)	HM	1280	1	Santa Clara
27)	KF	1292	0.25	Guantánamo
28)	JQ	1300	1	Nuevitas
2)	DO	1310	0.25	Banas
5)	AL	1330	0.25	Pinar del Río
5)	GU	1340	0.25	Colón
29)	KY	1350	0.25	Puerto Padre
30)	BG	1360	0.25	La Habana
31)	KX	1390	0.25	Bayamo
32)	DX	1430	0.25	Baracoa
33)	KZ	1430	0.25	Palma Soriano
34)	CG	1460	0.25	Marianao
35)	GE	1470	1	Cárdenas
36)	KT	1520	1	Victoria de las Tunas
37)	DV	1550	0.25	Santiago
5)	GB	1560	0.25	Cárdenas
38)	DF	1590	0.25	Manzanillo

1) **R. Rebelde,** Calle LO 216 e 23 y 25, Vedado, La Habana. **Ann:** "Aqui R. Rebelde, desde La Habana, Cuba, Territorio Libre de América" — **D.Prgr:** 10.00-05.00.
2) **R. Cadena Provincial.**
3) **R. CMQ,** Calle M esq. a 23, Vedado, La Habana. **Ann:** "CMQ, desde La Habana, Cuba, Territorio Libre de América". **D.Prgr:** 10.30-05.00.
4) **R. Progreso,** Avda. Menocal 105, La Habana. **Ann:** "R. Progreso, Cadena Nacional, La Onda de la Alegría". **D.Prgr:** 10.30-05.00. **English Prgr:** "R. Free Dixie" directed to Negroes in the Southern US 05.00-06.00 (once weekly).
5) **R. Reloj Nacional,** Edif. Radiocentro Calle 23 258e/Ly M. Vedado, La Habana. **D.Prgr:** 24h; Continuous prgr. of N. under rhythm of clock ticks every second; Time every min.
6) **R. Cadena Habana.**
7) **R. CMCA,** Edif. "N", calle N esq. a 23, Vedado, La Habana. **D. Prgr. in English:** 11.00-06.00 exc. for bilingual news. **Ann:** "CMCA, The Friendly Voice of Cuba, broadc. on 830kc, from Havana, Cuba, Free Territory of America.
8) **R. Doblevé** — 9) **Presentando Música** — 10) **Cadena Agramonte.**
11) **R. Musical Nacional,** Calle M esq. a 23, Vedado, La Habana (classical music only).
12) **R. Cadena Provincial de Pinar del Rio.**
13) **El Periódico del Aire** — 14) **R. Sancti Spiritus.**
15) **La Voz de Isla de Pinos** — 16) **R. Frequencia Popular.**
17) **R. Enciclopedia Popular** — 18) **R. Caibariién.**
19) **Radiotempe** — 20) **R. Angula** — 21) **R. CMJK.**
22) **La Voz de Ciego de Avila** — 23) **R. Veintiseis** (26)
24) **R. Artemisa** — 25) **R. Móron** — 26) **R. Centro.**
27) **R. Guantánamo** — 28) **R. Nuevitas** — 29) **R. Puerto Padre.**
30) **R. Popular** — 31) **R. Bayamo** — 32) **R. Baracoa** — 33) **R. Palma Soriano** — 34) **R. Marianao** — 35) **R. Ciudad Bandera.**
36) **R. Victoria de las Tunas** — 37) **R Santiago de Cuba** — 38) **R. Guacanayabo.**
La Voz de Cuba is a complementary early-morning prgr. of music, news and commentary. Is aired over a network of some of Cuba's high-powered st's and generally operates 05.00-10.30.

RADIO HABANA, Cuba

Schedule not received at time of printing.

DOMINICAN REPUBLIC

L.T: GMT − 5 h (GMT − 4 h: October-January) — **Pr.L:** Spanish.

DIRECCION GENERAL DE TELECOMUNICACIONES

ADDR: Santo Domingo. **Te:** 22244. **Cable:** Telecom — **L.P:** Dir. Gen: V. Hidalgo J.
STATIONS: Short Waves: Call: HI—. * = inactive. P = Puerto. Sto = Santo.

	Call	kHz	m	kW	Name and h of tr.
1)	AU	*3205	93.60	0.5	La Voz de la Libertad. P. Plata.
2)	SD	3215	93.30	7.5	R. Television Dominicana, Sto. Domingo
3)	MP	3255	92.16	0.5	R. Ocoa, San José de Ocoa: 14.00-22.00
4)	DB	*3235	92.74	0.5	R. Libertad, Santiago
5)	AF	*3245	92.45	0.5	R. Monte Cristi

O. I. R. T.

Review of the International Radio and Television Organisation (O. I. R. T.):

RADIO & TELEVISION

published in English - French, Russian and German brings every 2 months valuable information on the world of Broadcasting and Television.

Subscription: The International Radio and Television Organisation (O.I.R.T.), U Mrázovky 15, Praha 5, Czechoslovakia.

	Call	kHz	m	kW	Name and Approx. h of tr.
6)	RM	3265	91.87	1	R. Sol, Higuey: 11.00-03.00
7)	AA	*3315	90.50	1	R. Ritmos, Santiago
8)	AS	3345	89.68	1	Onda Musical, Sto. Domingo: irr
9)	BD	3355	89.42	0.25	La Voz de la Romana, La Romana: 11.00-03.00
10)	RL	3365	98.15	1	R. Exitos, Santiago: 12.00-05.00
11)	AD	3375	88.89	1	R. San Juan: 10.45-03.00
12)	DA	3385	88.63	1	R. Hit Musical, Santiago: 11.00-15.00, 23.00-03.00
13)	AZ	*3395	88.37	1	R. Santiago: irr
8)	AS	4790	62.63	1	Onda Musical, Sto. Domingo: 10.30-04.30
14)	FF	*4840	6198	1	La Voz del Atlantico, P. Plata
15)	JP	4880	61.48	1	R. Comercial, Sto. Domingo: 11.00-05.00
16)	KZ	4980	60.25	0.5	R. Dif Popular (irr)
17)	N	4910	61.10	1	R. HIN, Sto. Domingo: 11.00-05.00
18)	BE	4940	60.73	1	R. Mil. Sto. Domingo: 11.00-05.00
19)	CN	4960	60.48	1	R. Antillas, Sto. Domingo: 11.00-05.00
20)	CK	*4980	60.25	0.25	Ondas del Yaque, Santiago
21)	MS	5010	59.88	0.8	R. Cristal, Sto. Domingo: 11.00-05.00
22)	BB	5030	59.64	1	La Voz del Papagayo, La Romana: 11.00-03.00
13)	AZ	*6060	49.50	1	R. Santiago
4)	DB	6075	49.38	0.5	R. Libertad, Santiago: 11.00-01.00
2)	SD	6090	49.26	20	R. Televisión Dominicana: 11.00-03.00
1)	AU	6185	48.50	0.1	La Voz de la Libertad, P. Plata: 11.00-03.00
2)	SD	9505	31.56	50	R. Televisión Dominicana: 11.00-03.00

Medium Waves: Call: HI—. ° = Short Wave.

	Call	kHz	kW		Call	kHz	kW		Call	kHz	kW
23)	CM	540	5/1	42)	ON	1040	1	60)	XZ	1350	1
7)	AA	°560	1	43)	CB	1050	1	2)	SD	1360	1
21)	MS	°570	1	44)	BJ	1070	1	2)	SD	1370	1
24)	AB	590	0.5	45)	FM	1090	0.5	61)	JC	1380	5
25)	RD	600	0.25	46)	MC	1100	0.5	2)	SD	°1390	1
2)	SD	620	10	47)	MH	1110	0.5	62)	BN	1400	1
5)	AF	°630	1	48)	—	1120	0.5	63)	AL	1400	1
26)	AT	650	5	19)	CN	°1120	1	64)	AE	1410	1
27)	AM	660	2	10)	RL	°1130	1	65)	VG	1430	1
28)	AW	690	5	8)	AS	°1150	1	66)	FS	1440	1
29)	DC	700	1	49)	DE	1160	0.5	11)	AD	°1440	1
30)	AQ	725	3	18)	BE	°1180	10	67)	AK	1440	0.5
31)	Z	730	1	50)	DV	1200	10	68)	AR	1450	0.5
32)	MD	760	0.5	51)	CJ	1210	1/0.1	69)	AC	1450	0.5
33)	BO	780	1	17)	N	°1220	10	70)	HG	1450	1
34)	L	790	5	1)	AU	°1240	0.5	71)	RV	1450	1
13)	AZ	°820	5	52)	CV	1240	0.7	72)	AN	1460	0.5
2)	SD	860	5	53)	BC	1250	5	73)	AG	1470	0.5
35)	BG	870	1	54)	T	1260	0.25	74)	AH	1490	0.5
36)	OR	880	1	2)	SD	1270	1	75)	AP	1490	0.25
37)	PJ	890	5	55)	VM	1290	1	76)	KF	1490	1
38)	BA	920	0.25	56)	KQ	1300	0.5	77)	PS	1510	1
20)	CK	°930	5/1	57)	AV	1310	0.5	78)	BL	1520	1
39)	G	950	1	2)	SD	1310	1	79)	FB	1560	1/0.25
14)	F	°960	1	58)	HD	1320	1	80)	WJ	1580	0.5
40)	SA	980	3	4)	DB	°1330	1	81)	AJ	1590	1
15)	JP	°1010	10	3)	MP	°1340	0.5	82)	BS	1600	1
41)	DL	1030	0.5	59)	BZ	1340	1	12)	DA	°1600	1

Short Waves: Abbrev: R.D. = República Dominicana.

1) Apt. 224, P. Plata. **Te:** 551. **L.P:** Dir: R. Rojas. Dir. Tec: L. José E. **D.Prgr: N:** 11.00, 17.30. **FM:** 98.2MHz. **Ann:** "Transmite la Voz de la Libertad desde Puerto Plata, norte de la República Dominicana". **V.** by letter. Recordings accepted.

2) Ca. Dr. Tejada Florentino 8, Sto. Domingo. **Te:** 9-2120. **Cable:** Ratdo. **L.P:** Dir. Gen: R. L. Perello. **D.Prgr: N:** 11.00, 17.00, 01.00. **Rel. Prgr:** D 23.00. **Ann:** "Desde Sto. Domingo, transmite Radiotelevision Dominicana". **V.** by QSL-card. Recordings accepted. **Relay st's:** 1270kHz Santiago, 1360kHz La Vega, 1310kHz El Seibo, 1370kHz Barahona 1390kHz S. Juan de la Magúana. **FM:** 96MHz (Constanza) 0.25kW, 100MHz (Sto. Domingo) 0.25kW + 3 links.

3) Ca. Sánchez esq. 12 de Julio, San José de Ocoa. **Te:** 34. **L.P:** Dir. Gen: F. Antonio J. St. Mgr: W. Alberto R. Dir. Tec: R. Daniel M. **D.Prgr:** 11.00-03.00. **N:** 11.00, 17.30, 23.00. **Ann:** "Esta es R. Ocoa, HIMP desde San José de Ocoa, República Dominicana". **V.** by letter. Recordings accepted.

4) Apt. 112, Santiago. **L.P:** Dir: A. Vanderhorst **Te:** 2924. **D.Prgr: N:** 11.30, 22.00. **Ann:** "Desde Santiago en la R. D. transmite R. Libertad, Sintonia perfecta en todo el país". **V.** by letter or QSL-card.

5) Apt. 52, Monte Cristi. **Te:** 161. **L.P:** Dir: R. O. Moscoso. **D.Prgr: N:** 17.00, 00.00. **FM:** 92MHz 0.25kW. **V.** by letter. Recordings accepted.

6) Apt. 1313, Higuey. **Te:** 43. **L.P:** Dir: R. A. Morales. **D.Prgr: N:** 11.00. **Ann:** "Transmite R. Sol, en el este la mejor, desde el Hotel el Naranjo en Higuey, ciudad del futuro, en la R.D." **V.** by letter. Recordings accepted.

7) Apt. 581, Santiago. **Te:** 2001. **L.P:** Dir: J. W. Streese. **Ann:** "Enfocando al futuro y en nueva dimensión radiofonica R. Ritmos, 560kHz onda larga y 95.1Mz FM". (FM: 0.25kW).

8) Palo Hincado 48, Sto. Domingo. **Te:** 2-6129. **L.P:** Owner: R. Pacheo. St. Mgr: M. Báez A. **D. Prgr:** 10.30-04.30. **N:** 11.00, 17.30, 23.30. **V.** by letter. Recordings accepted. **FM:** 92MHz 0.05kW. **V.** by letter. **F.PI:** 5kW on mw.

9) Castillo Márquez 28, altos, La Romana. **Te:** 98. **L.P:** Dir: N. Martiñez. **Ann:** "Transmite HIBD, La Voz de La Romana, desde La Romana, R.D."

10) 16 de Agosto 119, Santiago. **Te:** 4318. **L.P:** Dir: D. de la Rosa. **FM:** 90MHz 50kW. **V.** by letter.

11) Apt. 88, San Juan. **Te:** 233. **L.P:** Dir: Dr. L. P. Gonzales.

12) 30 de Marzo 35, Santiago. **Te:** 3246. **Cable:** Maja. **L.P:** Dir. Gen: M. A. Jorge A. Dir. Tec: A. Vanderhorst. **D. Prgr:** 11.00-04.00. **N:** 11.30, 18.15, 22.00, 23.30, 01.00. **Ann:** "H-I-D-A-, R. Hit Musical, en Santiago de los Caballeros, R.D. transmitiendo en los 1600 y 3385kz". **V.** by QSL-card. Recordings accepted.

13) Apt. 282, Santiago. **Te:** 3300. **L.P:** Dir: A. Bojas B. Dir. Tec: L. Felipe Moscoso. **D. Prgr:** 11.00-05.00. **N:** 17.35, 03.05. **FM:** 89.2 MHz, 500W. **Ann:** "Circuito de Emisoras de R. Santiago, ondas corta y larga, 89.2MHz, en Santiago, R.D". **V.** by QSL-card.

14) Ca. Comercio 21, P. Plata. **Te:** 567. **L.P:** Dir: D. Brugal Alfau.

15) Apt. 1322, Sto. Domingo. **Te:** 21144. **L.P:** Dir: J. Nova R. Dir. Tec: H. Cambero. **FM:** 95MHz 0.5kW. **V.** by QSL-card or letter.

16) Ca. Modesto Díaz 28, Apt. 3, San Cristóbal. **L.P:** Dir: R. Reyes.

17) Apt. 1220, Sto. Domingo, **Te:** 3-1025. **D. Prgr: N:** 11.00-00.35. **Ann:** "Desde Sto. Domingo, Capital de la R. D. transmite R. HIN". **FM:** 91MHz. **V.** by letter. Re. in Sp, E.

18) Apt. 1372, Sto. Domingo. **L.P:** Dir: J. Jiménez M. **FM:** 103/172.4 MHz (0.25kW/15W). **Ann:** "R. Mil, la Primera". **V.** by QSL-card.

19) Ca. Mercedes 102, Sto. Domingo. **Te:** 9-8728. **Cable:** Mazelba. **L.P:** F. Casado. Dir. Tec: A. Infante. **D. Prgr:** N (W only): 11.30, 17.30, 23.00. **Ann:** "Esta es R. Antillas, con Estudios en el Corazon de Sto. Domingo, Capital de la R. D". **V.** by letter.

20) Ca. 30 de Marzo 15, Santiago. **Te:** 5444. **L.P:** Dir: R. Candelario L. Dir. Tec: L. Silverio. **Ann:** "Transmite Ondas del Yaque, desde Santiago de los Caballeros en la R.D". **FM:** 92MHz 0.25kW.

21) Apt. 1322, Sto. Domingo. **Te:** 2-1577. **L.P:** Dir: D. Aracena. Dir. Tec: H. Cambero.

22) Casa Puerto Rico, La Romana. **Te:** 135. **L.P:** Dir: M. Romero.

Medium Waves: Abbrev: R.D. = Republica Dominicana.

23) **R. ABC,** Ca. Aníbal Espinosa 60, Villas Agricolas, Sto. Domingo. **L.P:** Dir: H. Pérez. **FM:** 105MHz. **D. Prgr:** 10.00-05.00. **V.** by letter.

24) **R. Isabel Torres,** Ca. John F. Kennedy 115, P. Plata. **L.P:** Dir: Lic. J. Méndez.

25) **R. Unica,** Castillo.

26) **R. Universal,** Hotel Jaragua, Sto. Domingo. **L.P:** Dir: E. A. Perez. **FM:** 98MHz. **D. Prgr:** 11.00-05.00. **V.** by letter.

27) **R. Quisqueyana,** Ca. 30 de Marzo 47, Santiago. **Te:** 2540. **L.P:** Dir: M. Cepeda. **D. Prgr:** 12.00-03.00.

28) **R. Guarachita,** Palo Hincado 74, Sto. Domingo. **L.P:** Dir: R. A. Aracena. **D. Prgr:** 10.00-05.00. **FM:** 90MHz 1kW.

29) **R. Mao,** 27 de Febrero 71, Valverde. **L.P:** Dir: T. Pujols S. **D. Prgr:** 12.00-01.30.

30) **R. Norte,** Ca. Pedro Fco. Bono 58, Santiago. **L.P:** Dir: R. Hevia.

31) **Broadc. Nacional,** Ca. El Conde 79, Edifico Copello, Sto. Domingo **FM:** 89MHz. **D. Prgr:** 11.00-05.00. **V.** by letter.

32) **R. Tamboril,** Peña. **L.P:** Dir: A. Dajer B. **D. Prgr:** 11.00-03.00.

33) **R. Constanza,** Ca. Duarte Esq. Salomé Ureña de Henríquez, Constanza. **D.Prgr:** 13.00-03.00. **V.** by QSL-card. Recordings accepted. **F.PI:** 5kW + SW.

34) **La Voz del Trópico,** Apt. 335, Sto. Domingo. **L.P:** Owner: J. Custals. St. Mgr: V. Portalatín. **FM:** 98.2MHz 0.5kW. **D. Prgr:** 11.00-05.00. **N:** 11.30, 22.30. **V.** by letter.

35) **Radiolandia,** Ca. el Sol 30, Santiago. **Te:** 3429. **L.P:** Dir: R. L. Macdúgal. **D. Prgr:** 11.00-03.00.

36) **R. Santa Cruz de Mao,** Ca. Duarte 49, Valverde. **Te:** 234. **D. Prgr:** 11.00-03.00. **V.** by letter. Recordings accepted.

37) **R. Continental,** Apt. 156, Sto. Domingo. **Te:** 234. **L.P:** Dir: P. Justiniano P. **D. Prgr:** 10.45-05.00. **V.** by letter. Recordings accepted. **F.PI:** 10kW + FM

38) **R. Reloj de Emisoras Unidas,** Ca. Arzobispo Meriño 26, Sto. Domingo. **L.P:** Dir: P. J. Santana. **D. Prgr:** 12.00-03.00.

39) **R. Dif. HIG,** Av. Mella 144, Sto. Domingo. **L.P:** Dir. & Owner: A. Cordero. **FM:** 97MHz. **D. Prgr:** 11.00-04.00.

40) **R. Cibao,** Apt. 141 Santiago. **L.P:** Dir: C. Pou.

41) **R. Novedades,** Ca. Restauración 21, La Vega. **Owner:** N. Grullón A. **D. Prgr:** 12.00-03.00.

42) **R. Central,** Apt. 1270, Sto. Domingo. **L.P:** Dir. J. Torres. **FM:** 91.3 MHz **D. Prgr:** 11.00-05.30.

43) **R. HICB,** 30 de Marzo 54, Santiago. **L.P:** Dir: J. L. Sánchez. **D. Prgr:** 11.00-03.00.

44) **HIBI Radio,** Apt. 201, San Francisco de Macorís. **L.P:** Dir: J. A. Gonzalez. **D. Prgr:** W 10.00-03.00 (comm), Sun 13.30-01.00 (non-comm).

45) **R. Amistad,** Licey al Medio, Santiago.

46) **R. Programas Quisqueya,** Edif. Jaar, Ca. El Conde esq. Espaillat, Sto. Domingo. **L.P:** Dir: V. M. Furment U. **D. Prgr:** 11.00-03.00.

47) **R. Real,** Ca. J. Rodriguez 2, La Vega. **L.P:** Dir: F. Holguín. **D. Prgr:** 12.00-03.00.

48) **R. Jarabacoa,** Ca. Domingo, Savio 1, Jarabacoa. **L.P:** Dir: J. J. Batista.

49) **R. Tiempo,** Ca. Capotillo, Cotuí, La Mata. **L.P:** Dir: R. A. Almonól.

50) **R. Santa María,** Sto. Cerro, La Vega. **L.P:** Dir: R. P. Wenceslao C. **D. Prgr:** W 10.00-03.00 (comm); Sun 12.30-14.00, 16.00-20.30. (rel. & cultural). **F.PI:** On 560kHz with 10kW.

51) **R. Merengue,** Apt. 47, San Francisco de Macorís. **L.P:** Dir: A. Mena. **D. Prgr:** W 11.30-00.30, Sun 12.00-24.00.

52) **R. Barahona,** Apt. 25, Barahona. **L.P:** Dir: R. Lama. **D. Prgr:** 11.00-03.00. **V.** by letter. Recordings accepted.

53) **La Voz del Progreso,** Apt. 264, San Francisco de Macorís. **L.P:** Dir: J. Raposo P. **D. Prgr:** W 11.00-00.30, Sun 12.00-03.00.

54) **R. Tropical,** Ca. B49 Ens. Ozama, Sto. Domingo. **L.P:** Dir: C. Valoy. **D. Prgr:** 11.00-05.00.

55) **R. Bonao,** Ca. Duarte Esq. Mella, Bonao. **L.P:** Dir: J. Aquino T.

56) **R. Radio,** Apt. 209, Ca. El Conde, Edif. El Palacio, Sto. Domingo. **L.P:** Dir: R. A. Martínez G. **D. Prgr:** 10.00-05.00.

57) **R. Baní,** Duarte 31 Sur, Baní. **L.P:** Dir: M. E. Bello. **D. Prgr:** 12.00-01.00.

58) **La Voz de Oriente,** Apt. 554, San Pedro de Macorís. **L.P:** Dir: F. M. Donastorg. **D. Prgr:** 11.00-04.00.

59) **R. Centro,** Apt. 65, San Juan de la Maguana. **Te:** 222. **D.Prgr:** 11.00-03.00. **FM:** 100.1 MHz 0.25kW. **V.** by letter. Recordings accepted.
60) **R. Triunfo,** Ca. El Conde 79, Apt. 201. Sto. Domingo. **L.P:** Dir: F. Hatton. **D.Prgr:** 11.00-05.00.
61) **R. Maibá,** Apt. 42, Santiago. **L.P:** Dir: J. Caballero. **FM:** 106.1 MHz. **D.Prgr:** 11.00-05.00.
62) **R. Puerto Plata,** Apt. 183, Puerto Plata. **L.P:** Dir: J. A. Martínez. **D. Prgr:** 11.00-03.00. **V.** by letter. Recordings accepted.
63) **Ondas del Valle,** Apt. 102. La Vega. **L.P:** Dir: D. Valerio. **D. Prgr:** W 12.00-03.00, Sun 14.00-23.00.
64) **R. Tricolor,** Apt. 1013, Sto. Domingo. **L.P:** Dir: G. Guerrero. **D. Prgr:** 11.00-05.00.
65) **R. Momento,** Apt. 203, La Vega. **L.P:** Dir: G. Sánchez G.
66) **R. Bahía,** Emilio Conde 5, Nagua. **D. Prgr:** 11.00-03.30. **V.** by QSL-card. Recordings accepted.
67) **R. Progreso,** Apt. 715, Sto. Domingo. **L.P:** Dir: D. Mayo. **FM:** 89.6 MHz. **D. Prgr:** 10.00-08.00. **V.** by letter.
68) **R. San Cristóbal,** Ca. Modesto Díaz 5, San Cristóbal. **L.P:** Dir: V. Cabreja. **D. Prgr:** W 12.00-03.00.
69) **R. Dif. HIAC,** Ca. G. R. Cabral 11, Salcedo.
70) **R. Beler,** Barrio Mejoramiento Social, Dajabón. **L.P:** Owner: A. Garcia.
71) **R. Caribe,** Ca. Independencia 59, San Pedro de Marcoris. **L.P:** Dir: R. Vallenilla.
72) **R. Magua,** Apt. 304, Hato Mayor. **L.P:** Dir: E. F. Astacio.
73) **R. Azul,** Ca. San Luis 25, Santiago. **Te:** 4062. **L.P:** Dir: L. Atiles.
74) **R. Sensacional,** Ca. Yolanda Guzmán 183, Sto. Domingo. **D. Prgr:** 11.00-04.00.
75) **R. Gabino,** Ca Caonabo 81, Moca. **L.P:** Dir: G. Nuñez.
76) **R. Azua,** Ca. Francisco del Rosario Sánchez 6, Azua. **L.P:** Dir: J. A. Féliz A.
77) **R. Nagua,** Nagua. **L.P:** Dir: S. Collado G.
78) **R. Pueblo,** Centro de los Héroes, Sto. Domingo. **L.P:** Dir: P. Pou S. **D. Prgr:** 10.00-05.00.
79) **R. El Mundo,** Apt. 467, Los Minas, Sto. Domingo. **L.P:** Dir: L. R. Sanchez N. **D. Prgr:** 11.00-05.00.
80) **R. Samamá,** Apt. 124, Samamá. **L.P:** Dir. F. del Toro.
81) **R. Unión,** Apt. 197, Sto. Domingo. **L.P:** Dir: R. Peralta P. **D. Prgr:** 11.00-05.00.
82) **R. San Pedro,** Apt. 504, San Pedro de Macoris. **L.P:** Dir: E. A. de Soto. **D. Prgr:** 11.00-04.00.

EL SALVADOR

L.T: GMT − 6 h — **Pr.L:** Spanish.

GOVERNMENT DEPT. FOR BROADCASTING
ADDR: Ministerio del Interior, Palacio Nacional, San Salvador.

ASOCIACION SALVADOREÑA EMPRESARIOS RADIODIFUSION (ASDER)
ADDR: Apt. Postal 210, San Salvador. **L.P:** Pres. A. Rivas Cañas.
STATIONS: All st's comm. exc. R. Nacional, (Cultural).
Short Waves: Call: YS−.

	Call	kHz	m	kW	Name
1)	S	6010	49.92	5	R. Nacional de El Salvador,
1)	S	9555	31.40	5	San Salvador: 17.00-05.00

Medium Waves: Call: YS−. * = Short Wave.

	Call	kHz	kW		Call	kHz	kW
2)	FG	550	0.5	29)	TW	960	0.25
3)	ABC	560	5	30)	MS	970	0.25
4)	EB	580	10	31)	AN	980	1
5)	NK	600	5	32)	TA	990	5
6)	LN	630	10	33)	C	1015	10
1)	S	*655	10	34)	U	*1050	10
7)	QR	700	5	35)	DM	1080	5
8)	RS	710	1	36)	EM	1080	1
9)	RA	720	5	37)	MG	1090	1
10)	RU	720	1	38)	RF	1100	1
11)	R	730	10	39)	OA	1120	1
12)	RM	740	5	40)	G	1130	0.5
13)	KLA	750	10	41)	T	1140	3
14)	KL	760	10	42)	CF	1150	1
15)	KLB	770	5	43)	CB	1175	0.5
16)	AX	800	10	44)	DL	1200	1
17)	FA	810	1	45)	EW	1220	3
18)	DR	820	5	46)	I	1250	3
19)	PX	830	4	47)	QZ	1270	0.5
20)	F	840	5	48)	V	1280	1
21)	RC	860	1	49)	HX	1300	1
22)	AR	870	1	50)	HQ	1330	5
23)	CD	880	0.5	51)	XW	1340	1
24)	LA	890	1	52)	MQ	1370	0.5
25)	QJ	910	10	53)	JJ	1400	1.5
26)	W	930	1	54)	HF	1430	0.5
27)	TG	940	1	55)	ON	1470	2
28)	GH	950	1				

Circuito YSR (Comm.): St's 8), 9), 10), 11) — **Addr:** Apt. Postal 720, San Salvador. **Te:** 3250. **Cable:** Yesere. **L.P:** Dir: B. Eserski. **D.Prgr:** All st's 12.00-06.00. **Ann:** "Circuito YSR, la emisora popular". **V.** by QSL-card and letter. Re. in Sp, E. Prgr. schedule free.
Radio Televisión YSU, S.A. (Comm.): St's 3), 7) — **Addr:** Apt. Postal 1050, San Salvador. **Te:** 1050. **Cable:** Yusa.
D.Prgr: All st's 12.00-06.00. **N:** 03.30, 05.50 + short N. every 15 min.
Ann: "En El Salvador Centro América transmite R. Cadena YSU". **V.** by QSL-card and letter. Re. in Sp. E —
Cadena Radia Salvadoreña, S.A: St's 4, 18, 36) — **Addr:** Edil. Torre Lopez, 3° piso, San Salvador. **Te:** 3331. **Cable:** Carasal.
D.Prgr: All st's 12.00-06.00. **N:** Every 15 min's.
Radio Cadena YSKL: St's 13), 15), 42). — **Addr:** Box 1329, San Salvador **Te:** 6830. **D. Prgr:** YSKL 24h. Other st's: 12.00-17.30. **N:** every 15 min.

Short Waves:
1) 2a Avenida Sur 113, San Salvador. **Te:** 4376. **Cable:** "Almacus". **L.P:** Dir. Gen: Lic. V. Manuel G. Dir. of Prod: R. A. Campos M. Dir. Tec: A. Hernandez. **D.Prgr:** N: 18.45, 21.45, 00.00, 04.00; also short news every 15 min's. **Ann:** "Esta es YSS R. Nacional de El Salvador, transmite YSS R. Nacional de El Salvador, Centroamérica" or "Esta es YSS Alma Cuscatleca", la primera emisora Fundada en Centroamérica". **Int-Sig:** Four notes on Xylophone. **V.** by QSL-card and letter. Prgr. schedule free. Recordings accepted.
Medium Waves: D. Prgr: Approx. 12.00-05.00.
2) **R. Variedades,** 3a Ca. Oriente 19, Sonsonate.
3) **Radiomisora Salvadoreña,** San Miguel.
4) **Cadena Radial Salvadoreña,** (see above).
5) **R. Exitos.** C. Santa Tecla Km 5, San Salvador.
6) **R. 630,** Primera Av. Sur 428, San Salvador.
7) **R. Morazán,** C. Santa Tecla y Av. Alimpica, San Salvador.
8) **Circuito YSR,** Sonsonate.
9) **Circuito YSR,** Santa Ana.
10) **Circuito YSR,** Usulutan.
11) **Circuito YSR,** Colonia Centro América, San Salvador.
12) **Circuito YSR,** Cra. Internacional, San Miguel.
13) **R. Universal,** Colonia España Santa Fe.
14) **R. Cadena YSKL** (see above).
15) **R. Universal,** San Miguel.
16) **La Voz Panamericana,** 2a Av. Norte, San Salvador.
17) **R. Lorenzana,** San Vincente.
18) **R. Tropical,** Santa Ana.
19) **R. Pax,** Ciudad Jardin, San Miguel.
20) **R. Vanguardia,** Pasaje Vilanova 114, San Salvador.
21) **R. Tecána,** Cra. Internacional, Santa Ana.
22) **R. Comercial,** 27a Ca. Oriente 229, San Salvador.
23) **R. Dif. YSCD,** Santiago de Maria, Usulutan.
24) **R. Musical,** 4a Ca. Poniente 2, Santa Ana.
25) **Radiopolis,** Ca. Poniente 3038, San Salvador.
26) **R. Santa Ana,** Sta. Ana.
27) **R. Sonora,** Edif. Dario 220, San Salvador.
28) **R. Minuto,** 9a Ca. Oriente 17, San Miguel.
29) **R. Centro,** Ca. Oriente, Sonsonate.
30) **R.Centroamericana,** Ca. Poniente 3038, San Salvador.
31) **La Voz de Los Ausoles,** Ca. Poniente, Ahuachapán.
32) **R. Continental,** Colonia Alfaro, Mejicanos.
33) **R. Internacional,** 29a Ca. Oriente 218, San Salvador.
34) **R. Mil Cincuenta,** Apt. 1050, San Salvador.
35) **Cadena Radial Salvadoreña,** San Miguel.
36) **R. Dif. YSEM,** Planes de Renderos.
37) **La Voz del Espino,** Ahuachapán.
38) **R. Femenina,** Mejicanos.
39) **R. Libertad,** Cuscatancingo, San Salvador.
40) **R. Chaparrastique,** 7a Ca. Oriente 46, San Miguel.
41) **R. El Mundo,** Apt. Postal 210, San Salvador. **Te:** 255538.
Cable: Yesete. **L.P:** Dir. Gen: Betty Suarez. Dir. Adm: A. Suarez. **Ann:** "Esta es R. El Mundo en 1140kHz en San Salvador, República de El Salvador" or "YST R. El Mundo transmite música y solo música, porque la musica es el lenguaje de las almas". **V.** by letter. Reports welcome.
42) **Ondas Orientales,** Cra. Ci. S. Miguel, La Union.
43) **La Voz del Pacifico,** 3a Ca. Oriente 19, Sonsonate.
44) **La Voz Popular Salvadoreña,** Canton Zacamil, Mejicanos.
45) **R. Popular,** Ca. San Antonio Abad, San Salvador.
46) **R. Reloj,** 53 Sur 123, Edif. Curtis, San Salvador. **L.P:** Dir. Gen: A. R. Cañas.
47) **R. 1270,** Costado Norte del Campo de Marte, San Miguel.
48) **R. Comercial,** Colonial Sta. Lucia 43B, Santa Ana.
49) **El Sonido de la Musica,** Cantón Delicias del Norte, Cuscatancingo.
50) **R. Progreso,** Apt. 855, San Salvador. **Te:** 252054. **D.Prgr:** 11.00-04.00.
51) **R. San Miguel,** Ruta Militar, San Miguel.
52) **La Voz de las Colinas,** Nueva San Salvador.
53) **La Voz del Litoral,** 4a Av. Norte 5, Usulután.
54) **R. Caribe,** Cojutepeque.
55) **R. Cristal,** Colonia Centro América, San Salvador.

GUADELOUPE (French West Indies)

L.T: GMT − 4 h — **Pr. L:** French.

OFFICE DE RADIODIFFUSION — TELEVISION FRANCAISE (ORTF)
ADDR: B.P. 402, Pointe-à-Pitre. **Te:** 1320 — **L.P:** St. Mgr: M. Villeneuve. Chief Tech. Sces: M. R. Vidal.
STATIONS: Arnouville: 640kHz 468.8m 20kW
Citerne: 1420 kHz 211.3m 4 kW.
HOME SCE: 10.30-02.00 — **N:** 10.30 (rel. Paris), 11.30, 15.00, 16.00, 17.00, 21.00, 22.00, 23.00.
ANN: "Ici Guadeloupe-Inter. Office de Radiodiffusion — Télévision Française" — **INT-SIG:** Guitar — **V.** by letter. Rp — **ALF:** 30Fr.

GUATEMALA

L.T: GMT − 6 h — **Pr. L:** Spanish.

DIRECCION GENERAL DE RADIODIFUSION Y TELEVISION NACIONAL
ADDR: Ca. 18 de Septiembre 6-72 Zona 1, Guatemala. **Te:** 23318. **Cable:** Tevenac. **L.P:** Vice Dir. Gen: C. A. Marroquin G.
STATIONS: Short Waves: Call: TG − −; Location: Guatemala City exc. where indicated.

	Call	kHz	m	kW	Name and Approx. h of tr.
1)	RW	2340	128.4	0.1	R. William R. Woods, Sta. Cruz Barillas: 23.30-02.30

Call	kHz	m	kW	Name and Approx. h of tr.
2) SC	2350	127.6	1	La Voz de Candelaria, Jaceltenango: 11.0-12.00, 18.00-19.00, 23.00-01.00
3) BA	2360	127.1	0.3	R. Maya Barillas, Huehuetenango: 23.40-03.00
4) VN	3360	89.29	1	La Voz de Nahualá, Nahualá, Sololá: 23.00-03.00
5) CH	3380	88.76	1	R. Esc. Radiofonicas, Chortis: 18.00-02.00
6) QH	4870	61.60	2	R. Sta. Cruz, Sta. Cruz: 12.00-02.00
7) RY	4920	60.98	0.15	La Voz de San Raymundo: 23.00-06.00
8) MS	5070	59.17	0.3	R. Nacional, Mazatenango.
9) NA	5955	50.40	5	R. Cultural: 12.00-03.00
10) SMA	6080	49.34	0.5	R. Nacional de San Marcos
11) QA	6110	49.10	0.5	R. Nacional Quezaltenango
12) WB	6180	48.54	10	La Voz de Guatemala: 12.00-06.00
13) FT	6190	48.47	1	R. Nacional Tikal, Flores Peten: 18.30-20.20, 01.00-04.30
9) NB	9668	31.03	5	R. Cultural: 03.00-04.00
12) WA	9760	30.74	10	La Voz de Guatemala
11) QB	11700	25.64	0.5	R. Nac. Quezaltenango: 13.00-04.00
12) WA	15170	19.78	10	La Voz de Guatemala

Medium Waves: Call; TG — —; °) Short Wave.

Call	kHz	kW		Call	kHz	kW		Call	kHz	kW
14) RV	550	10	33)	AL	990	1	56)	L	1250	1
15) PA	570	1	34)	AH	1000	1	57)	CQ	1270	1
16) Y	580	1	35)	RX	1010	1	58)	AJ	1280	1
17) A	610	1	36)	UX	1030	10	59)	TU	1290	1
12) W	640	20	37)	JP	1040	1	60)	AR	1300	5
18) RT	670	10	38)	SL	1050	1	61)	AN	1310	1
19) MQ	680	1	39)	XA	1060	10	62)	MU	1330	10
20) HR	700	5	40)	D	1070	1	63)	LK	1360	10
21) XL	710	1	41)	Z	1090	10	64)	AC	1370	0·5
9) N	°730	10	42)	AB	1090	1	65)	MG	1380	1
22) HS	760	10	43)	MK	1110	1	66)	YC	1390	5
23) BX	770	1	44)	C	1120	1	67)	GH	1410	1
24) O	790	5	45)	VR	1130	1	68)	RP	1420	1
11) Q	°810	2	46)	RR	1150	10	69)	AG	1430	1
25) TO	820	5	47)	RI	1160	1	70)	LG	1450	1
26) X	850	1	48)	RL	1170	1	8)	MS	°1450	1
10) SM	°870	1	49)	T	1180	10	71)	RN	1460	1
27) J	880	10	50)	LU	1190	1	72)	IZ	1480	1
28) KL	910	1	51)	RJ	1200	1	73)	CO	1490	1
29) RS	920	1	52)	ED	1210	10	74)	HU	1490	1
30) TL	940	5	53)	MT	1220	0.5	75)	DZ	1510	1
31) AF	950	1	54)	AT	1230	1	76)	RF	1540	1
32) AX	970	10	55)	K	1240	5	77)	VE	1570	1

1) Convento Barillas, Huehuetenango. **L.P:** Dir: Rev: William R. Woods. **V.** by QSL-card.
2) Parroquia de Jacaltenango, Huehuetenango. **L.P:** St. Mgr: A. Lopez D. Dir. Tec: J. Mc Neill.
3) Barillas, Huehuetenango. **L.P:** Dir. Gen: D. Ekstrom. Dir. of Prgrs: J. Mc Kelvey. **V.** by letter.
4) Nahualá. Dpto. Sololá. **L.P:** St. Mgr: Sister G. M. Druffel. **Ann:** "Esta es TGVN La Voz de Nahualá" **V.** by letter.
5) Jocotán, Ch. Iquimula. **L.P:** Dir. Gen: F. van Weayenberghe. **V.** by letter. Recordings accepted.
6) Casa Social, Sta. Cruz del Quiche. **L.P:** Dir. Gen: J. Blanes R. Dir. Tec: F. Gonzales G. **Ann:** "Esta es TGQH, R. Sta. Cruz, La Voz del Quiché". **V.** by letter. **F. Pl:** 10 kW power.
7) Mpo. San Raymundo. **L.P:** Dir: C. Corzo P. **V.** by QSL-card. Recordings accepted.
8) Mazatenango Such. **L.P:** Dir. R. Escobar.
9) Apt. 601, Guatemala (owned by Central American Mission, 3611 Congress Ave, Dallas 19, Texas, US). **L.P:** St. Dir: & Dir. Prgr: D. Ruthledge. Dir. Tec: E. Yoder. **D. Prgr:** On 720 kHz: 11.00-04.00 in Spanish; On 5955kHz: 11.00-03.00 in Spanish, N: 13.00, 19.00, 01.00. On 9668kHz: 03.00-04.00 in **English. Ann:** E: "These are your Good News Stations, TGN and TGNA broadc. from America's heart". Sp. "Estas son sus emisoras culturales TGN y TGNA". **V.** by QSL-card. Rp. Prgr. schedule free. **F. Pl:** 6 × 1kW repeater st's.
10) San Marcos. **L.P:** Dir: J. Pablo Q.
11) Apt. Postal 113, Quetzaltenango. **L.P:** Dir: J. C. Loarca del Valle **D.Prgr: N:** 18.30, 03.20. **Ann:** "Esta es TGQ La Voz de Quetzaltenango, en Quetzaltenango, Guatemala Centroamérica". **V.** by QSL-card or letter. Recordings accepted.
12) Ca.18 de Septiembre 6-72, Z-1, Guatemala. **Te:** 23318. **Cable:** Tevenac. **Ann:** "Esta es TGW La Voz de Guatemala" (followed by 3 xylophone notes). **V.** by QSL-card. Recordings accepted.
13) Ciudad Flores Peten. **L.P:** Dir. Prof. J. E. Rosado P. **Ann:** "R. Nacional Tikal, TGFP, La Voz de la Leyenda Maya en el Horizonte Norte". **V.** by special letter.

Medium Waves:

14) **R. Cinco Sesenta,** 30 Av. 3-40, Z-1, Guatemala. **L.P:** Dir: R. A. Diaz.
15) **R. Palmeras,** Escuintla. **L.P:** Dir: F. Tres G.
16) **R. Progreso,** 6a Av. 10-58, Z-1. Guatemala. **L.P:** Dir: H. Andrino.
17) **R. Señorial,** 6a Av. 12-15, Z-1, Guatemala. **L.P:** Dir: J. A. Marroquin.
18) **R. Fabulosa,** Via 6,3-74, Z-4, Guatemala. **L.P:** Dir: F. Maza C.
19) **R. Retama,** San Marcos. **L.P:** Dir: F. de Diaz.
20) **R. Mundial,** 6a Av. 2-80 Z-1, Guatemala. **L.P:** Dir: A. Mourra.
21) **R. Tecun Uman,** Quezaltenango. **L.P:** Dir: M. S. Sosa de C.
22) **R. Super Radio,** 6a Av. 15-40, Z-1, Guatemala. **L.P:** Dir: M. A. Rodriguez.
23) **R. Fraternidad.** Quezaltenango. **L.P:** Dir: E. Pontaco.
24) **La Voz de las Americas,** 2a Av. 13-39, Z-1, Guatemala. **L.P:** Dir: J. Flamenco C.
25) **R. Internacional,** Km. 12 C Roosevelt, Guatemala **L.P:** Dir: J. Monteros.
26) **R. Ciro's,** Santa Rosita, Z-16, Guatemala. **L.P:** Dir: R. Castillo
27) **R. Nuevo Mundo,** 6a Av. 10-45, Z-1, Guatemala. **L.P:** Dir: H. Gonzalez J.
28) **R. Emperador,** 6a Av. 2-80, Z-1, Guatemala. **L.P:** Dir: L. N. Ortiz
29) **R. Sur,** Escuintla. **L.P:** Dir: C. Diaz.
30) **La Voz del Hogar,** 2a Calle 4-80, Z-9, Guatemala. **L.P:** Dir: S. Falla C.
31) **R. Indiana,** Mazatenango. **L.P:** Dir: G. Alcazar.
32) **R. Continental,** 13 Calle 12-26, Z-1, Guatemala. **L.P:** Dir: R. Vizcaino R.
33) **La Voz de la Perla,** Chiquimula. **L.P:** Dir: A. Liu.
34) **R. Mil,** Ruta 6,9-50, Z-4, Guatemala. **L.P:** Dir: G. Galan P.
35) **R. Nac. Miramundo,** Zacapa.
36) **R. Panamericana,** Km. 12 C. Roosevelt, Guatemala. **L.P:** Dir: M. V. de Paniagua.
37) **R. Oriental,** Jalapa. **L.P:** Dir: A. Morales H.
38) **R. Sol,** Santa Lucia. **L.P:** Dir: E. Soria S.
39) **R. Centro,** 6a Av. 10-58, Z-1, Guatemala. **L.P:** Dir: R. Hegel.
40) **La Voz de Occidente,** Quezaltenango. **L.P:** Dir: J. A. Yllescas F.
41) **R. Popular,** 3a Av. 13-07, Z-1, Guatemala. **L.P:** Dir: M. Tulio I.
42) **R. Coban,** Coban Alta Verapaz. **L.P:** Dir: D. M. de Diaz.
43) **R. Marinala,** Santa Lucia. **L.P:** Dir: V. M. Marroquin.
44) **R. Poderosa,** Puerta Parade, Guatemala. **L.P:** Dir: J. A. Quiñonez
45) **La Voz de la Costa Sur,** Retalhuleu. **L.P:** Dir: J. E. Archila M.
46) **R. Reloj,** 2a Av. 8-67, Z-9, Guatemala. **L.P:** Dir: M. Falmston.
47) **R. Izabal,** Puerto Barrios. **L.P:** Dir: H. A. Orellana.
48) **R. Landivar,** Quezaltenango. **L.P:** Dir: H. Diaz.
49) **R. Sonora,** 5a Av. 16-38, Z-1, Guatemala. **L.P:** Dir: M. Ruiz T.
50) **R. Novedad, L.P:** Dir: E. A. Liu.
51) **R. Jutiapa,** Jutiapa. **L.P:** Dir: C. E. Archila.
52) **R. Mil Doscientos Diez,** 3a. Av. 13-07, Z-1, Guatemala. **L.P:** Dir: M. T. Illescas.
53) **R. Luminaria,** Antigua. **L.P:** Dir: J. G. Mendoza T.
54) **R. Atlantida,** Puerto Barrios. **L.P:** Dir: J. Archila.
55) **R. Sensacion,** 6a Av. 10-45, Z-1, Guatemala. **L.P:** Dir: H. Gonzalez G.
56) **R. Victoria,** Mazatenango. **L.P:** Dir: A. Medina.
57) **R. Emisora de la Juventud,** Km. 12 C. Roosevelt, Guatemala. **L.P:** Dir: J. Paniagua.
58) **R. Tropicana,** Escuintla. **L.P:** Dir: C. Echeverria.
59) **R. Nacional,** Totonicapan.
60) **R. Quetzal,** 18 Calle 12-24, Z-10, Guatemala. **L.P:** Dir: M. V. de Rosa.
61) **La Voz de los Altos,** Quezaltenango. **L.P:** Dir: J. C. Garcia P.
62) **Union Radio,** 10a Calle 3-41, Z-1, Guatemala. **L.P:** Dir: K. Heinz
63) **R. Tic Tac,** Km. 12 C. Roosevelt, Guatemala. **L.P:** Dir: M. Marroquin O.

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64) **R. Cultural de Colomba,** Colomba. **L.P:** Dir: O. Garcia.
65) **R. Nacional,** Pto. Matias de Galvez.
66) **R. Istmania,** 18 Calle 9-09, Z-1, Guatemala. **L.P:** Dir: J. Elias P.
67) **R. Xelaju,** Quezaltenango. **L.P:** Dir: G. Hurtado.
68) **R. Dial 14,** 6a. Av. 7-50, Z-4, Guatemala. **L.P:** Dir: J. Luis A.
69) **La Voz de Huehuetenango,** Huehuetenango. **L.P:** Dir: M. Guzman
70) **R. Variedades,** 6a Av. 2-80, Z-1, Guatemala. **L.P:** Dir: E. Gonzalez M.
71) **R. Peten,** Santa Barbara. **L.P:** Dir: M. Colmenares.
72) **La Voz de la Marimba,** Mixco, Guatemala. **L.P:** Dir: F. Monteagudo.
73) **La Voz del Tropico,** Coatepeque. **L.P:** Dir: G. Calderon.
74) **R. Circuito TGHU,** Antigua.
75) **R. Centroamericana,** 2a Calle 36-89, Z-11, Guatemala. **L.P:** Dir: C. Peynado.
76) **R. Faro Aviateca,** 1a, Calle 6-90, Z-9, Guatemala.
77) **La Voz Evangelica,** 23 Av. 4-64, Z-7, Guatemala. **L.P:** Dir: O. Rios P.

HAITI

L.T: GMT −5 h — **Pr.L:** French, Creole.

DEPARTMENT DES TRAVAUX PUBLICS

Services des Telecommunications, Port-au-Prince.
L.P: Dir: Eng. F. A. Michel.
STATIONS: All st's comm. exc. 1), 2), 13) and 25).
Short Waves: Call: 4V---. * = inactive.

	Call	kHz	m	kW	Name and h of tr.
1)	U	2410	124.5	0.25	R. Lumière, Cayes: 10.00-13.00, 21.30-03.00; Sun 10.00-03.00
2)	SO	2450	122.5	0.25	R. St. 4VEH, Cap-Haitien: see below
3)	M	4940	60.73	0.5	R. Diffusion Haitienne, Port-au-Prince: 11.00-02.00 (Sun 16.00-22.00)
4)	GS	5020	59.76	0.5	R. Indépendance, Gonaives: 11.30-14.30, 17.00-20.00, 23.00-03.00; Sun 16.00-01.00
5)	GA	*5040	59.52	0.15	R. Capois-la-Mort, Port-de-Paix
6)	AE	5090	59.00	0.25	R. Grande Anse, Jérémie
7)	EW	5155	58.20	0.15	R. St. 4VEL, Ft. Liberté: 10.00-04.00
8)	B	5908	50.78	7.5	Voix de la Révolution Duvaliériste, Port-au-Prince: 11.00-04.00 (Sun 23.00)
8)	B	5950	50.42	7.5	Voix de la Révolution Duvaliériste, Port-au-Prince
8)	B	5980	50.17	7.5	Voix de la Révolution Duvaliériste, Port-au-Prince: 11.00-04.00 (irr.)
9)	EB	6020	49.83	0.25	R. Caraibes, Port-au-Prince: 10.00-04.00
10)	G	6050	49.59	0.05	R. Union, Port-au-Prince
11)	SC	6078	49.36	0.2	La Voix de St. Marc.
12)	HW	6080	49.34	1	R. Haiti, Port-au-Prince
1)	O	6100	49.18	0.25	R. Lumière, Cayes: 10.00-13.30, 21.30-03.00; Sun 10.00-03.00
13)	O	6100	49.18		Voix de l'Ave Maria, Cap-Haitien 11.30-12.00, 22.30-23.00
2)	E	6120	49.02	1	R. St. 4VEH, Cap-Haitien: see below
14)	WB	6155	48.74	0.25	R. Citadelle, Cap-Haitien: 12.00-03.00, Sun 12.00-21.00
15)	EA	6075	49.38	0.15	Voix du Nord, Cap-Haitien.
16)	PJ	6175	48.58	0.5	R. Diffusion Capoise, Cap-Haitien
12)	HW	6195	48.43	1	R. Haiti, Port-au-Prince: 10.30-04.00, Sun 13.30-03.00
8)	C	*9485	31.62	7.5	Voix de la Révolution Duvaliériste, Port-au-Prince
8)	C	9545	31.43	7.5	Voix de la Révolution Duvaliériste, Port-au-Prince
1)	U	9635	31.14	0.25	R. Lumière, Cayes: 13.00-13.30 (irr.)
2)	EH	9770	30.71	0.5	R. St. 4VEH, Cap-Haitien: see below
2)	EJ	11835	25.35	2.5	R. St. 4VEH, Cap-Haitien: see below
2)	WI	15280	19.63	0.1	R. St. 4VEH (experimental)

Medium Waves: ° = Short Wave.

	Call	kHz	kW		Call	kHz	kW		Call	kHz	kW
1)	UE	660	0.25	20)	CPS	990	0.2	3)	YM	°1250	0.6
1)	IA	730	0.25	2)	EF	°1035	10	5)	GA	°1280	0.2
1)	I	°760	1	8)	A	°1080	1.5	12)	W	°1330	1.5
1)	IE	760	0.25	10)	F	1120	0.2	23)	S	1380	1
2)	EC	830	2.5	9)	AB	°1150	1	24)	GM	1430	1
17)	2A	880	0.2	21)	RD	1170	0.25	15)	CP	°1460	0.15
18)	JS	930	0.25	6)		°1190	0.15	25)	OC	1500	—
19)	CD	960	0.3	22)	DS	1210	0.5	14)	WA	°1500	0.2

Short Waves:
1) B.P.71, Cayes (for 4VUE: B.P.1051, Port-au-Prince). **L.P:** Dir: L. A. Markwood. Dir. Tec: D. Hartt. **D.Prgr:** 10.00-14.00 & 21.30-03.00; Sat 10.00-14.00, 20.30-03.00; Sun 10.00-03.00. **Spanish:** 13.00-13.30 (on all outlets, except 2410kHz which is replaced by 9635kHz) **Ann:** "Votre Station c'est R. Lumière, Réseau Culturel Haitien, émettant des Cayes et de Port-au-Prince". **V.** by QSL-card. Rp. **Pub:** Prgr. schedule.
2) Box 1, Cap-Haitien. **Cable:** Ormiso. **L.P:** Dir. Gen: Dr. E. Erny. Gen. Mgr: Dr. Wm. Gillam. Dir. Tec: M. E. Picazo. Dir. Prgr: H. Hess. **D.Prgr: French/Creole:** W 09.55-12.15 on 1035/2450kHz, 17.00-21.00 on all freq's, 21.00-23.30 on 9770/11835kHz, 23.30-01.30 on all freq's; Sun 09.55-15.00 on 1035/2450kHz, 17.00-23.30 on 1035/2450/6120kHz, 23.30-01.30 on all freq's.
English: W 11.00-12.15 on 830/6120/9770/11835kHz, 12.15-14.00 on all freq's, 01.30-03.30 on all freq's; Sun 11.00-15.00 on 830/6120/9770/11835kHz, 17.00-21.00 on 830/9770/11835kHz, 01.30-03.30 on 830/9770/11835kHz.
Spanish: W 09.55-11.00 on 830/6120/9770/11835kHz, 21.00-23.30 on 1035/2450/9770kHz; Sun 09.55-11.00 on 830/6120/9770/11835kHz. 21.00-23.30 on 830/9770/11835kHz.
Listener's Post: Sat 03.00. **Ann:** "Ici la Voix Evangélique d'Haiti" or "Ici R.4VEH". Sp: "Escucha Ud. la Voz Evangélica de las Antillas, Estación 4VEH". E: "This is the Evangelistic Voice of the West Indies" or "This is R. 4VEH". **Int-Sig:** Gong **V.** by QSL-card or letter. Re. in Eng, Sp, Fr. **Pub:** Prgr. schedule (twice a year) free on request.
3) Ruelle Jeanty, Bois-Verna, Port-au-Prince. **L.P:** Dir: Y. Michel. **D.Prgr: N:** 11.30, 12.35, 13.55, 18.00, 23.30. **Ann:** "Avec vous, la R. Diffusion Haitienne á Port-au-Prince. R. Diffusion Haitienne Postes 4VM et 4VYM, partout et pour tous" or "Ici Port-au-Prince, R. Diffusion Haitienne, qui émet de Port-au-Prince, Haiti, sur 1250kHz, onde moyenne et sur 60 mètres, onde courte fréquence 4940kHz". **V.** by letter.
4) Gonaives. **L.P:** Dir: P. Mitton. **Ann:** "Ici R. Indépendance, Poste 4VGA, qui émet des Gonaives, République d'Haiti, Grandes Antilles." **V.** by letter.
5) Port-de-Paix. **L.P:** Dir: A. Dorvil. Dir. Tec: G. Arthamin. **D.Prgr:** 10.00-04.00 (mw only). **V.** by letter.
6) Jérémie. **L.P:** Dir: A. Félix. **D.Prgr:** irregularly. **V.** by letter.
7) Ft. Liberté.
8) B.P. 1143, Port-au-Prince. **Te:** 3471. **Cable:** Radioco. **L.P:** St. Mgr: M. Canal. **D.Prgr:** Special official prgr (relayed by most of Port-au-Prince st's): "La Voix de la République d'Haiti": 12.00, 19.30, 23.15, 02.30. **Arabic** (comm. prgr): Sun 17.15-18.15. **Ann:** "Au service du Peuple Haitien, au service de la Culture, dans l'unité, l'ordre le travail et le progrès, ici la Voix de la Révolution Duvaliériste, Postes 4VA, 4VB et 4VC, émettant de Port-au-Prince, capitale de la République d'Haiti, patrie de Jean Jacques Dessalines, le Grand l'Emancipateur, d'Alexandre Pétion, le Panaméricaniste, d'Henri Christophe, le Civilisateur et de François Duvalier, le Rénovateur". **Note:** Irregularly using 4VB on 5908, 5950 or 6000kHz — **FM:** 94MHz.
9) 23 Ruelle Chavannes, Port-au-Prince. **Te:** 4115. **L.P:** Dir. Gen: & Dir. Tec: A. Brown. Gen. Mgr: F. André. Dir. Prgr: E. Romain. **Ann:** "Ici R. Caraibes, Postes 4VAB et 4VEB, émettant de Port-au-Prince, capitale de la République d'Haiti, Grandes Antilles, sur la bande des 260m86 et celle des 49m", or "Au coeur des Continents, dans le Bassin des Caraibes, ici R. Caraibes, émettant de Port-au-prince, Haiti, sur 1150kHz et dans la bande des 49m, avec la fréquence de 6020kHz". **V.** by QSL-card or letter — **Note:** The sw outlet moves from 6005 to 6020 to avoid interference.
10) 1 Ruelle Louverture, Blvd. J. Dessalines, Port-au-Prince.
11) St. Marc.
12) P.O. Box 737, Port-au-Prince. **L.P:** Dir: R. Widmaier. **Ann:** "Vous écoutez R. Haiti, émettant dans les bandes de 230, 49 et 31 mètres, á Port-au-Prince" or "R. Haiti, la station des vedettes, la vedette des stations" or "Treize-Cent-Trente sur le cadran de votre poste: R. Haiti".
13) Evêché du Cap-Haitien. **V.** by letter. Recordings accepted.
14) Cap-Haitien. **L.P:** Dir: S. Wainwright. **V.** by letter.
15) Cap-Haitien. **L.P:** Dir: E. Anacréon. **D.Prgr:** mw 12.30-03.00, sw 14.00-23.00 (irr.) **V.** by letter.
16) Rue 9D 144, Cap-Haitien.

Medium Waves:
17) **R. Nationale,** Route de Carrefour, Port-au-Prince. **D.Prgr:** 10.00-04.00 (moves between 890 & 905kHz).
18) **R. Varieté,** Gonaives. **L.P:** Dir. J. Simon. **D.Prgr:** 10.00-04.00.
19) **R. Carillon,** Rue Dr. Aubry 157, Port-au-Prince. **D. Prgr:** W 11.30-13.00, 21.00-01.00.
20) **R. Cacique,** Rue Traversière 3, Port-au-Prince. **D.Prgr:** 11.00-02.30 (Sun 04.00).
21) **R. Tropiques,** Ave. John Brown, Lalue, Port-au-Prince. **D.Prgr:** 11.00-04.00.
22) **R. Progrès,** Blvd. J. J. Dessalines 758, Port-au-Prince. **D.Prgr:** 10.00-04.00.
23) **R. Port-au-Prince,** Stade Sylvio Castor, Port-au-Prince. **D.Prgr:** 10.30-03.00.
24) **Magloire Broadc.** Circuit, Rue Américaine, Port-au-Prince. **D.Prgr:** 11.30-04.00 (Sun 13.30).
25) **R. Select,** Blvd. Jn. J. Dessalines, Rue Saint-Honoré 538, Port-au-Prince.

HONDURAS (British)

L.T: GMT — 6 h — **Pr. L:** English, Spanish.

RADIO BELIZE (Gov-Semi Comm)

ADDR: P.O. Box 89, Belize. **Te:** 80. **Cable:** "Radio" — **L.P:** Dir. E. G. Waight. Chief Eng: L. H. Young. Prgr. Organizer: E. Usher. **STATIONS:** 830kHz 359.7m 20kW — 3300kHz 90.85m 1kW.
HOME SCE. English, Spanish: 12.00-04.30 on 830kHz, 22.00-04.30 on 3300kHz.
English 12.00-16.00, 17.00-22.00, 00.30-04.30. **N:** 12.45, 13.00, 13.30, 14.00, 18.30, 20.00, 01.00, 03.00 — **Spanish:** 16.00-17.00, 22.00-00.30. **N:** 16.55, 18.45, 24.00, 01.10.
ANN: E: "This is R. Belize, "Voice of the Emerging Nation of Belize in Central America". Sp: "Esta es R. Belice la Voz de la Nación Naciente de Belice en Centro America" —
INT-SIG: Opening: "Land of the Gods". Closing: "Land of the Gods" and UK Nat. Anthem — **V.** by QSL-card. Recordings accepted — **F. Pl:** 1kW relay st's on 910, 920 & 930kHz.

HONDURAS (Rep.)

L.T: GMT — 6 h — **Pr.L:** Spanish.

DIRECCION GENERAL DE COMUNICACIONES ELECTRICAS, Tegucigalpa. **L.P:** Chief of R. Nacional: H. Andino N.
STATIONS: Short Waves: Call HR--. * = inactive.
Where no times indicated usually 11.00-06.00.

	Call	kHz	m	kW	Name & h of tr.
1)	MD	4755	63.09	0.25	R. Yoro, Yoro.
2)	LC	4770	62.89	1	R. Continental, San Pedro Sula
3)	RZ	4780	61.48	1	R. Juticalpa: 13.00-24.00
4)	FS	4790	62.29	1	R. 1° de Mayo, Tela: 12.00-03.00
5	VC	4820	62.24	5	R. Evangélica, Tegucigalpa: 11.00-16.00, 18.00-04.00
6)	VK	4845	61.92	0.75	R. Católica (La Voz de San Isidro) La Ceiba: 12.00-13.00, 17.00-19.00, 23.00-03.00
7)	VA	4855	61.79	1	R. Corona, San Pedro Sula
8)	QN	4880	61.48	0.5	La Voz del Atlantico, Puerto Cortez
9)	VL	4890	61.35	1	R. Lux, Olanchito: 12.00-03.00
10)	SY	4914	61.05	0.25	La Voz del Pacifico, San Lorenzo
11)	OM	4900	61.22	0.5	La Voz del Ulua, El Progreso
12)	PL	4920	60.98	1	R. Progreso, El Progreso
13)	VS	4930	60.85	1	R. Católica, Tegucigalpa: 10.00-05.00 (Sun 03.00)
14)	OE	5035	59.58	1	La Voz de las Fronteras: Ocotepeque
15)	N	5875	51.05	1	La Voz de Honduras, Tegucigalpa: 11.00-24.00
16)	VF	5955	50.37	1	R. Exitos, Tegucigalpa
17)	RH	5960	50.34	1	La Voz de Occidente, Sta. Rosa de Copan: 12.00-24.00
18)	WW	5965	50.29	1	La Voz de Centroamerica, San Pedro Sula: 11.00-05.00
19)	PI	5995	50.04	1	El Eco de Honduras, San Pedro Sula
20)	SP	6020	49.83	1	R. Moderna, Tegucigalpa
21)	TL	6035	49.71	1	R. Tic-Tac, Tegucigalpa: 11.00-05.00
22)	DN	6040	49.67	0.5	R. Caribe, La Ceiba
23)	LP	6050	49.59	1	R. América, Tegucigalpa
24)	U	6060	49.50	1	R. Castro, Tegucigalpa
25)	MH	6075	49.38	5	La Voz del Junco, Sta. Bárbara: 11.30-24.00
26)	NQ	6090	49.26	1	R. Morazán, Tegucigalpa
27)	XW	6110	49.10	1	R. Comayagüela, Tegucigalpa
28)	Q	6125	48.98	1	La Voz de Suyapa, San Pedro Sula
29)	ME	*6135	48.90	1	R. El Patio, La Ceiba
30)	XE	6145	48.82	1	R. Mil Treinta, Juticalpa: 11.00-05.00
31)	TV	6165	48.66	1	R. Televisión, Tegucigalpa
32)	MT	6185	48.50	1	R. Molina Rojo, San Pedro Sula

Medium Waves: Call: HR—. — also on shortwave.

	Call	kHz	kW		Call	kHz	kW
33)	TX	560	1	45)	VH	1040	1
33)	T5	590	1	46)	LE	1050	1
23)	LP	*610	10	47)	XM	1070	1
32)	MT	*640	1	7)	VA	*1080	1
16)	VF	*640	1	12)	PL	*1110	0.5
15)	N	*670	10	48)	D4	1120	1
34)	RT	700	1	49)	RO	1130	1
17)	RH	*710	1	8)	ON	*1150	1
31)	TV	*720	1	50)	TZ	1160	0.5
35)	TV2	720	1	18)	VW	*1190	1/6
36)	QQ	730	0.25	27)	XW	*1200	1
37)	JS	740	1	51)	QL	1230	0.5
22)	DN	*750	1	3)	RZ2	*1240	1
26)	NQ	*770	10	28)	Q	*1250	1
33)	VQ	790	1	52)	YT	1270	1
38)	XS	820	1	53)	XA	1280	1
20)	SP	*830	1	54)	XX	1300	1
24)	U	*860	10	55)	H6	1340	1
13)	VS	*910	10	29)	ME	1350	1
39)	ZE	930	1	5)	VC	*1380	1
40)	YW	950	1	4)	FS	*1390	1
41)	BT	960	1	19)	PI	*1400	1
42)	AS	960	1	56)	OW	1420	1
43)	GZ	960	1	57)	XA	1440	1
2)	LC	*1000	1	58)	OC	1480	1
30)	XE	*1030	1	25)	MH	*1500	1
44)	XN	1040	1				

Short Waves:

1) Yoro.
2) San Pedro Sula.
3) Juticalpa. **Te:** 2. **L.P:** Dir. Gen: V. Rubi Z. Dir. Tec: V. Guerrero D. **D.Prgr:** 10.30-04.30. **Ann:** "R. Juticalpa, La Expresión musical de Oriente". **V.** by letter. Recordings accepted. **F.Pf:** mw 1240kHz.
4) Tela. **Ann:** "HRST R. Primera de Mayo, La Voz del Trabajador Hondureño". **V.** by letter.
5) Apt. 270, Tegucigapa. **Te:** 27964. **Cable:** Vozehon. **L.P:** Dir. Gen: H. Erickson. Dir. Tec: P. J. Hutton. Dir. of Prgrs: R. G. Youngs. **D.Prgr: English:** 15.00-16.00, 03.00-04.00. **N. in Spanish:** 13.00, 19.00, 01.00. **"Songs in the night":** Sun 03.00-03.30. **Ann:** Sp: "Desde Tegucigalpa ciudad capital de la República de Honduras en Centro América, transmite HRVC, La Voz Evengélica de Honduras en las frequencias autorizadas de 1380kcs Onda Media, y en 4820kcs Onda Corta, banda internacional de 60 metros". E: "You're listening to HRVC The Evangelical Voice of Honduras broadc. from Tegucigalpa, capital city of the Republic of Honduras in the heart of Central America". **V.** by QSL-card or letter. Recordings accepted.
6) Box 51, La Ceiba. **Te:** 241. **L.P:** Dir. Gen: C. A. Valdez. Mgr: Rev J. Vivas G. **D.Prgr: N:** 18.30. **Ann:** "HRVK, R. San Isidro consagrada a la acción cultural y espiritual del pueblo Hondureño". **V.** by letter. Recordings accepted. **F.Pf:** mw-tr.
7) 14 Ca. So. 38, San Pedro Sula. **V.** by letter. Recordings accepted.
8) Andrés Griffin C, Puerto Cortez.
9) Olanchito, Yoro. **Ann:** "Esta es R. Lux que transmite desde Olanchito, Yoro, Honduras, C.A. 4890kc onda corta banda de 60 metros". **V.** by letter.
10) Alberto H. Matamoros, San Lorenzo.
11) El Progreso, Yoro. **V.** by letter. Recordings accepted.
12) Carlos Coleman, El Progreso.
13) Apt. Postal 480, Tegucigalpa. **Te:** 22848. **Ann:** "Esta es R. Católica, La Voz de Suyapa". **V.** by QSL-card.
14) Edgardo Valle S, Ocotepeque.
15) 8a Ca. 410, Tegucigalpa. **Te:** 20861. **Ann:** "Transmite HRN, La Voz de Honduras, en Tegucigalpa, Honduras, Centro America". **Iat-Sig:** Gong & Xylophone. **V.** by QSL-card.
16) Tegucigalpa.
17) Cas. 206, Santa Rosa de Copán. **Cable:** Voccidente. **L.P:** Dir. Gen: A. Aravelo. Dir: Dr. A. Redon P. Dir. Tec: R. Lozano. **D.Prgr:** 12.00-04.00. **Ann:** "Esta es HRRH, La Voz de Occidente, transmitiendo desde Santa Rosa de Copán, Honduras, C.A.". **V.** by letter. Recordings accepted.
18) Apt. 120, San Pedro Sula. **Te:** 1828. **Ann:** "HRVW y HRWW, La Voz de Centroamérica". **V.** by letter. Recordings accepted.
19) Apt. 24, San Pedro Sula.
20) Tegucigalpa.
21) Apt. Postal 771, Tegucigalpa. **Ann:** "HRTL, R. Tic-Tac de Honduras". **V.** by QSL-card. Recordings accepted.
22) La Ceiba.
23) Apt. Postal 259, Tegucigalpa. **Te:** 2-8388. **V.** by letter. Recordings accepted.
24) Apt. Postal 642, Tegucigalpa. **V.** by letter.
25) Ca. Independencia, Sta. Barbara. **L.P:** Dir: Miguel Hasbun. **D.Prgr: N:** 17.30. **Ann:** "Entre Las Palmas del Junco y la Flor del Café, transmite la Primera Emisora de Occidente, La Voz del Junco, desde Santa Barbara, Honduras, C.A.". **V.** by QSL-card.
26) P.O. Box 393, Tegucigalpa.
27) Humberto Andino N, Tegucigalpa. **V.** by QSL-card.
28) San Pedro Sula. **L.P:** Dir: R. F. Yupa.
29) La Ceiba. **Te:** 112-222. **L.P:** Dir. Gen: J. A. Velasquez. St. Mgr: G. Irias A. Dir. Tec: L. Gomez. **D.Prgr:** 11.00-05.00. **V.** by letter.
30) Juticalpa. **Ann:** "Esta es R. Mil Treinta transmitiendo desde Juticalpa, Olancho, Honduras, C.A." **V.** by letter. Recordings accepted.
31) Apt. 734, Tegucigalpa. **V.** by letter.
32) Olga L. de Kattan, San Pedro Sula.

Medium Waves:

33) **R. Satélite,** Tegucigalpa (HRT5, San Pedro Sula).
34) **R. Exitos,** San Pedro Sula.
35) **R. Télévision,** Apt. 208, San Pedro Sula.
36) **R. Musical,** Camayagua.
37) **R. Metropolitana,** San Pedro Sula.
38) **R. Sula,** Carlos Coleman, San Pedro Sula.
39) **R. Cortés,** Puerto Cortés. 40) **R. Panamericana,** Tegucigalpa.
41) **R. Norte,** San Pedro Sula. 42) **R. Columbia,** Santa Barbara.
43) **La Voz de Atlantida,** La Ceiba.
44) **R. Ceiba,** Antonio R. Diaz, La Ceiba.
45) **R. Mil,** Tegucigalpa.
46) **R. Emperador,** Eduardo Morales, San Pedro Sula.
47) **R. Meridiano,** Choluteca. 48) **R. Oriental,** Danli.
49) **R. Universal,** Herman A. Padgett, Tegucigalpa.
50) **R. Cristal,** Tegucigalpa.
51) **Centro Radial Hondurena,** Siguatepeque.
52) **R. Estrella de Oro,** San Pedro Sula. **D.Prgr:** 10.00-05.00. **V.** by QSL-card. Recordings accepted. 53) **R. Choluteca,** Choluteca.
54) **R. Lima,** Carlo Coleman, La Lima.
55) **R. El Mundo,** San Pedro Sula.
56) **R. Trópico,** Tela. **L.P:** R. Funez A.
57) **Union Radio,** Tegucigalpa. 58) **R. Bahia,** Roatán.

JAMAICA

L.T: GMT -- 5 h — **Pr. L:** English.

RADIO JAMAICA LTD. (Comm.)

ADDR: Broadcasting House, Kingston 5. **Te:** 68151. **Cable:** Broadco — **L.P:** Gen. Mgr: L. De Pass. Dir. Prgr: H. Wong. Chief Eng: W. G. Matthews.
STATIONS: Mandeville 770kHz 5kW — Point Galina 580kHz 5kW — Kingston 720 kHz 5kW — Montego Bay 550kHz 5kW.
FM: Kingston 94.6MHz 0.03kW. Christiana 90.6MHz 0.85kW.
HOME SCE. in English: 09.45-05.00 (Sat 06.00) — **N:** 11.00, 12.00, 12.30, 13.00, 13.10, 15.00, 17.00, 18.00, 19.00, 22.00, 22.30, 23.00, 24.00, 02.00, 02.10, 04.55 — Imminent Hurricane warnings on the h every h of tr — **ANN:** "This is R. Jamaica and Rediffusion" — **V.** by QSL-card, **AD:** 12 min's per h.

JAMAICA BROADCASTING CORPORATION (Comm. & Public Service).

ADDR: 5 So. Odeon Ave, Kingston. **Te:** 65621. **Cable:** Jarad. **L.P:** Gen. Mgr: F. M. Needham. Dir. Tec: L. Stewart. Dir. Prgr: M. Bukht.
STATIONS (System: Gates):
Kingston 560kHz 5kW — Spur Tree 620kHz 5kW — Montego Bay 700kHz 5kW — Point Galina 750kHz 5kW
FM: Kingston 96.3MHz 1.2kW — Half Way Tree 99.0MHz 0.08kW — Christiana 91.1MHz 1.2kW.
HOME SCE: 09.45-05.00, **N:** 11.00, 12.00, 12.30, 13.00*, 13.10, 15.30, 17.30, 18.30, 21.30, 22.30, 23.00*, 00.30, 02.30, 04.00
(* = BBC) — **Wrp: W** 11.30, 12.40, 17.35, 23.32, 04.02.
ANN: "This is the Jamaica Broadc. Corporation" — "This is JBC Radio" — **INT-SIG:** Vibraphone: Chi Chi Bud (Jamaica folksong).

V. by QSL-card, Rp.

LEEWARD ISLANDS

L.T: GMT − 4 h — Pr.L: English.

Monserrat

RADIO MONSERRAT (Gov.)

ADDR: P.O. Box 51, Plymouth, Montserrat. **Te:** C76. **Cable:** Radmon.
STATION: 885kHz 339.0m 0.25kW.
HOME SCE. in English: W 10.00-12.00, 15.00-17.00, 20.00-02.00, Sun 21.30-24.00 — **N:** 11.00, 16.00, 20.00, 21.00, 21.10, 01.00. **ANN:** "This is R. Montserrat broadc. to the entire Leeward & Windward Isl. on 885kHz from the Groves Botanical Gardens in Plymouth" — **V.** by letter. Rp. Recordings accepted.

RADIO ANTILLES (Priv. Comm.)

ADDR. P.O. Box 35, Montserrat, West Indies. **Te:** 2125. **Cable:** ARC.
L.P: Chmn: G. Comminges. Mgr: D. Apperley. Dir. Public Rel. & Adv: C. Ritch. Dir. Tec: J. Horat. Chief Eng: L. Caspar. English Dept: B. Power, B. Meade. French Dept: G. Benet, B. Mulliez. Spanish Dept: C. Castillo, N. Ryan.
STATIONS: 930kHz 322m 200kW — 640kHz 468.0m 25kW.
HOME SCE: 10.00-14.00, 16.00-05.00.
English: 10.00-11.00, 13.00-14.00, 19.00-23.00, 01.00-02.30.
French: 11.00-13.00, 16.00-18.00, 23.00-01.00. **French/English:** 18.00-19.00. Spanish: 02.30-05.00 — **The Breakfast Show:** 10.00-11.00 — **International Show:** 18.00-19.00. **The Five O'Clock Show:** 21.00-22.00 — **Power House Party:** 01.00-02.00.
ANN: E: "This is R. Antilles". F: "Ici R. Antilles". Sp: "Aqui R. Antillas" — **INT-SIG:** Carillon (two notes) and "Carnival in the West Indies" — **V.** by QSL-card or letter.

Antigua

ANTIGUA BROADCASTING SERVICE (Gov.)

ADDR: St. Johns, Antigua — **L.P:** Mgr: E. A. M. John.
STATION: 620kHz 483.9m 0.5kW. **HOME SCE. in English:** 10.00-13.00, 16.00-18.00, 22.00-01.00.

St. Kitts

RADIO ZIZ (Gov.)

ADDR: Springfield, Basseterre, St. Kitts — **L.P:** Mgr: K. Osborne.
STATION: ZIZ 570kHz 526.3m 0.66kW.
HOME SCE. in English: 10.45-17.00, 21.30-02.00 — **N:** 11.00, 13.00, 14.00, 16.15 — **ANN:** "This is R. Station ZIZ" — **V.** by letter.

MARTINIQUE (French West Indies)

L.T: GMT − 4 h — Pr. L: French

OFFICE DE R. DIFF. TELEVISION FRANÇAISE (O.R.T.F.)

ADDR: B.P. 662, Fort de France. **Te:** 6060. **L.P:** Ing. Regional (for Martinique, Guadeloupe & Guyana): M. J. Dupré. St. Mgr: J. Paletou. Dir. Tec: M. Salmon.
STATIONS: (G.C: 61.00W/14.30N): 1310kHz 229.0m 50kW. 3315kHz 90.50m 4kW — 5995kHz 50.04m 4kW.
HOME SCE. in French: 10.00-02.45. **N:** 10.30 (relay Paris), 11.30, 17.00, 23.30.
ANN: "Ici Office de R. diff. Télévision Française, Fort de France" — **INT-SIG:** First eight notes of "Adieu Foulards, Adieu Madras" on piano.

ALF: 25 Frcs.

MEXICO

L.T: GMT − 6 h (Mexico generally), GMT − 7 h (Sonora, Sinaloa, Nayarit and Lower Calif.), GMT − 8 h (Upper Calif.) — **Pr. L:** Spanish.

DIRRECION GENERAL DE TELECOMUNICACIONES

Departamento de Radiodifusion — ADDR: Col. Narvarte, Mexico, DF.
STATIONS: All st's comm. exc. 2), 4), 8), 15) (XEAD only), 21), 70), 92), 115), 121) (XEJM only), 24) (Cultural).
Short Waves: Call: XE— —. * = inactive.

	Call	kHz	m	kW	Name and h of tr.
1)	VJ	2160	139.39	0.25	R. Dif. XEVJ, Chilpancingo
2)	SE	2380	126.0	0.35	Sria. de Educación Pública, Mexico
3)	JG	4820	62.24	0.2	Emis. Casa de la Cultura, Guadalajara: 20.00-05.00
4)	UMT	*5960	50.34	0.25	Universidad Iberoamericana, México
5)	OI	6010	49.92	2	R. Mil. México: 12.00-08.00
6)	UW	6020	49.88	0.25	R. Eco de Sotavento, Vera Cruz: 11.30-06.00
7)	XQOC	6045	49.63	0.25	R. Universidad Nac. Potosina, San Luis Potosi: 16.00-05.00 (Sun 13.00-03.30)
8)	XG	6065	49.46	10	R. Dif. México, México: 12.00-06.00
9)	CMT	6090	49.26	1	R. Dif. XECM/XECMT, Ci. Mante: 13.00-03.00
10)	QM	6105	49.14	0.25	Sistema R. Yucatan, Mérida: 13.00-06.00
11)	UDS	6140	48.86	1	R. Universidad de Sonora, Hermosillo: 17.00-03.00
12)	TS	6120	49.02	0.5	R. XETS, Tapachula, Chis: 12.00-06.00
13)	RCM	*6130	48.94	0.1	R. Central de México, México
14)	RUU	*6140	48.86	0.25	R. Universidad de Chihuahua
15)	WW	6165	48.66	10	La Voz de la América Latina, México: 12.00-05.00
16)	XA	*6175	48.58	0.1	R. Gobernación, México
17)	ICM	6185	48.50	1	La Voz del Maestro, México: 19.00-22.00
15)	WW	9515	31.53	10	La Voz de la América Latina, México: 12.00-05.00
18)	FT	9545	31.43	0.25	La Voz de Veracruz, Vera Cruz: 11.30-06.00
19)	QK	9555	31.40	1	La Hora Exacta, México: 24 h
20)	YU	9600	31.25	1	Universidad Nac. de México: 14.00-07.00
21)	QQ	*9680	30.99	1	R. Dif. XEQ/XEQQ, México
22)	MP	11740	25.55	1	R. Dif. XEMP, México
23)	BR	*11820	25.38	5	El Heraldo de Sonora Hermosillo
24)	RH	11880	25.25	5	R. Dif. Comerciales, México: 12.00-06.00
24)	RR	15110	19.85	5	R. Dif. Comerciales, México: 12.00-06.00
15)	WS	*15160	19.79	10	La Voz de la América Latina, México
25)	VOZ	*15200	19.74	5	R. Dif. XEVOZ, México

Medium Waves: Call: XE— —. * = Short Wave.
D = Daytime operation only (12.30-02.00 approx.) a = Belongs to RCN. St's printed in fat type are in Mexico City.

	Call	kHz	kW		Call	kHz	kW
15)	WA	540	150	97)	UX	810	5D
26)	KL	550	1/0.25	98)	BA	a820	1
27)	QW	a550	5	99)	KG	820	1
28)	UC	550	1	100)	LA	830	10/5D
29)	OC	560	1.5/1	101)	NSM	830	1
30)	LQ	570	1	102)	FG	840	1D
31)	NZ	570	1/0.25	103)	TQ	850	10D
32)	OA	a570	5/0.25	104)	M	a850	5
33)	TJ	570	1/0.1	105)	ZR	850	1D
34)	VX	570	1/0.25	75)	MIA	850	1D
35)	AV	580	5/1	11)	US	*850	1
36)	DZ	580	1/0.45	106)	AL	860	1D
37)	FI	580	5/0.25	107)	DU	a860	1/0.5
38)	HP	580	1/0.25	108)	MO	860	5
39)	MU	580	5/0.25	109)	NL	860	5
40)	UE	a580	5	110)	NW	860	1/0.25
41)	E	590	1/0.15	111)	RK	860	1
42)	FD	590	5/0.25	**20)**	**UN**	***860**	**50**
43)	HQ	590	1/0.5	112)	ZX	860	1/0.15
5)	**PH**	**590**	**5**	113)	EM	a880	1D
44)	BB	a600	5/1	114)	TZ	880	1
45)	DN	600	1	**15)**	**W**	***900**	**250**
46)	Z	a600	2	115)	HO	a910	1/0.25
47)	BX	610	5/0.5	23)	BH	*920	5/1
48)	CV	a610	1/0.25	116)	BM	920	5/1
49)	EL	610	1/0.15	117)	CQ	a920	1/0.1
50)	GS	610	1/0.5	118)	MJ	a920	1/0.25
57)	JA	610	1/0.5	119)	LT	920	1
52)	KZ	a610	1/0.5	120)	OK	920	1/0.25
53)	UF	610	5/1	121)	QD	920	1D
54)	BU	620	5/0.25	6)	U	*930	0.5
55)	CK	620	1/0.1	**21)**	**Q**	***940**	**50**
56)	**NK**	**620**	**10/5**	122)	WV	940	1D
57)	00	a620	1/0.25	123)	GM	950	3/2.5d
58)	ACA	a630	1	124)	RN	950	1
59)	ACM	630	1	125)	YJ	a950	1/0.1
60)	FB	630	5/1D	126)	K	a960	5/1
61)	FU	630	2/0.75	127)	CS	960	1/0.1
3)	JB	*630	0.5	128)	GB	960	1/0.5
62)	TK	a630	1/0.25	129)	HK	960	1/0.25
12)	TS	*630	1/0.5	130)	OZ	960	1/0.25
63)	TNT	650	1*	131)	IQ	a960	1/0.1
64)	ZM	650	5	132)	KS	a960	0.5/0.1
65)	RPM	660	10/5	133)	MM	960	1
66)	IS	670	1	134)	ROO	a960	1/0.5
67)	TOR	a670	1	135)	J	a970	10/5
68)	FJ	680	1/0.1	136)	O	970	1
69)	FO	680	1	137)	BJ	970	1/0.25
70)	KQ	a680	5/0.5	138)	CJ	970	1
71)	LG	680	10/5	10)	MH	970	1/0.1
72)	ORO	680	1	**21)**	**DF**	***970**	**10/5D**
73)	N	690	20/5	139)	OW	970	1/0.25
74)	TRA	690	50D	140)	OZ	970	1
75)	AR	700	1D	34)	VT	970	5/0.4
76)	BL	710	5/0.25	141)	UG	970	5
77)	KU	a710	1	142)	KE	980	1/0.25
22)	MP	*710	1.0/5	143)	LC	980	5/0.2
78)	ON	710	2/1	144)	NR	a980	5/0.5
79)	RL	710	1/0.2	145)	QG	980	1/0.1
8)	X	730	50	146)	TU	980	10/1
80)	ZZ	760	5D	147)	XT	a980	1
81)	**ABC**	**760**	**5**	148)	T	990	50d
82)	DGO	a760	1	149)	BC	990	1/0.1
83)	BI	790	1/0.25	150)	CL	990	5
84)	FE	790	1/0.5	151)	HZ	990	1/0.25
85)	GZ	790	1/0.25	152)	FV	1000	1D
86)	NT	790	5/0.75	**5)**	**OY**	***1000**	**10**
87)	RC	790	10/1	153)	FM	1010	1/0.2
88)	RPC	790	5/0.4	154)	HL	1010	10/5
89)	SU	790	1D	155)	DX	a1010	1/0.25
90)	VA	a790	5/0.2	156)	TX	1010	1/0.25
91)	AN	800	1D	157)	VK	1010	5/0.1
92)	LO	800	150	158)	WS	1010	5/0.25
93)	MMM	800	1	159)	XL	1020	1D
94)	FW	a810	50/30D	87)	QR	1030	10/1
95)	OE	810	1	160)	D	1050	10
96)	RSV	810	5	161)	G	1050	100

	Call	kHz	kW		Call	kHz	kW	
16)	DP	°1060	50d	243)	OM	1340		1/0.25
162)	GY	1070	1/0.25	244)	JF	1350		1
163)	IT	a1070	1/0.25	245)	MA	a1340		1
164)	SP	1070	5/1	246)	SL	1340		1
165)	OD	1090	1D	**19)**	**QK**	**°1350**		**1**
166)	RB	1090	50d	247)	TB	1350		5/0.5
167)	WL	1090	2.5D	248)	TM	a1350		1
168)	LEO	a1110	1	249)	Y	a1360		1
169)	OQ	a1110	1D	250)	KF	1360		1/0.25
15)	**RCN**	**°1110**	**50d**	251)	SA	a1360		1/0.5
170)	TR	1120	1D	252)	A	1370		1
171)	UNO	a1120	1	253)	HF	1370		5
172)	ZL	a1130	10	254)	PA	a1370		5/0.25
173)	MR	1140	1/0.5	5)	CO	1380		5
174)	XF	1140	5	255)	GW	1380		1
175)	AD	1150	1	256)	OR	1390		1
176)	BF	1150	1	257)	TL	1390		1
87)	**JP**	**1150**	**10d**	258)	AB	1400		1
177)	JS	1150	1/0.5	259)	TY	1390		5/0.25
178)	RM	1150	1/0.5	260)	GD	1400		1/0.2
179)	RTM	1150	1	261)	I	1400		1/0.25
180)	XZ	a1150	1/0.2	262)	KJ	1400		1/0.5
181)	IW	1160	1	263)	LH	1400		1
182)	RT	1170	5D	264)	PB	1400		1
183)	**FR**	**1180**	**1/0.25**	265)	TO	1400		1
184)	MBC	1190	1	266)	VV	1400		1/0.15
185)	PZ	a1190	1D	267)	AS	1410		1/0.25
186)	ZI	1200	1D	**5)**	**BS**	**°1410**		**5/1**
21)	**B**	**°1220**	**100**	268)	CF	1410		1/0.5
187)	S	1240	1/0.25	269)	KB	1410		5/0.25
188)	BN	1240	1/0.25	270)	TAB	a1410		1
189)	BQ	1240	1/0.25	271)	F	1420		5/0.5
190)	LD	a1240	1	272)	H	1420		1
191)	LM	a1240	1/0.25	273)	EW	1420		1D'
10)	MQ	°1240	1/0.25	10)	UP	1420		1
192)	NG	1240	1	274)	WE	1420		5
193)	RZ	1240	1/0.25	275)	WJ	1420		1/0.25
194)	DK	1250	5/1	276)	XX	1420		2
195)	DL	a1250	1/0.5	277)	IG	a1430		1/0.1
196)	JX	1250	1/0.1	278)	LL	1430		1/0.25
197)	PI	1250	1/0.1	279)	LY	1430		1D
198)	SJ	1250	1/0.5	280)	OX	1430		5/0.5
18)	TF	°1250	0.5	281)	RAC	1430		1
199)	**L**	**1260**	**10/1**	282)	WD	a1430		2/0.15
200)	R	1260	1/0.25	87)	LZ	1440		5/1
201)	MF	1260	1/0.25	9)	CM	a1450		1/0.25
202)	OG	1260	1/0.15	283)	DJ	1450		1
203)	AX	1270	5/0.5	284)	GC	a1450		1
204)	GL	1270	1/0.5	285)	JD	1450		1/0.25
205)	MW	1270	1D	286)	NA	1450		1/0.5
206)	NY	1270	1/0.25	287)	PP	1450		1/0.25
207)	PV	1270	1/0.25	10)	PY	1450		
208)	ZU	1270	1/0.25	288)	VH	1450		1/0.25
209)	AG	1280	1	289)	HE	1460		1
210)	AW	1280	5/0.5	280)	HX	1460		1/0.26
211)	BW	1280	1/0.6	290)	JT	1460		1D
212)	CAM	a1280	1	291)	LX	1460		10D
213)	AP	1290	1/0.1	7)	XQ	°1460		0.25
19)	DA	1290	10/1	292)	YC	1460		1
214)	IX	1290	1	293)	BBC	a1470		5
215)	JL	1300	1/0.25	294)	DS	1470		1/0.2
216)	LE	1300	1/0.15	295)	HI	1470		1/0.25
217)	P	1300	1/0.15	296)	ND	a1470		1
218)	HU	a1300	1	**297)**	**SM**	**1470**		**10/5**
219)	KW	a1300	1	298)	YA	a1470		1
220)	SW	1300	1D	299)	HM	1480		1D
221)	XW	1300	1/0.1	300)	NS	1480		1
222)	AM	1310	1/0.25	301)	PR	1480		10/0.5
223)	BP	1310	5/0.25	302)	DR	1490		1/0.25
224)	FH	1310	1D	303)	ED	1490		1/0.25
225)	HV	1310	1	304)	FF	1490		1/0.25
226)	IZ	1310	1	305)	GT	1490		1/0.25
227)	PO	a1310	1/0.25	306)	VZ	1490		1/0.2a
14)	RU	°1310	1/0.25	307)	XE	1490		1
228)	TIA	1310	1/0.25	**24)**	**RH**	**°1500**		**20D**
87)	**AI**	**1320**	**10/1**	308)	SD	a1530		1D
229)	NI	1320	1	**5)**	**UR**	**1530**		**5**
230)	RJ	a1320	1/0.5	249)	NC	1540		1/0.25
231)	UH	1320	1/0.1	309)	BG	a1550		5
232)	UI	1320	1/0.5	310)	NU	1550		SD
233)	BO	1330	1D	311)	RX	1560		1/0.25
234)	FC	1330	1	312)	VIP	1560		1/0.5
235)	RP	1330	1/0.1	313)	RF	1570		250
236)	UZ	1330	1	314)	DM	1580		50
237)	WQ	1330	1D	315)	LI	a1580		1/0.25
238)	CW	1340	1	316)	NQ	1580		1/0.5
239)	JK	1340	1/0.25	317)	QL	a1580		1/0.2
240)	DKT	1340	1/0.25	280)	NH	1590		1/0.2
241)	GR	1340	1	**25)**	**VOZ**	**°1590**		**10/5**
242)	NV	1340	1/0.25	318)	BZ	a1590		1D
	st's less IkW not mentioned.			319)	AE	a1600		1

PRINCIPAL BROADCASTING NETWORKS

A) **Radio Programas de Mexico** (with 73 affiliated st's) — **ADDR:** Bucareli 109, 4° piso, México, DF. **Te:** 464972. **Telex:** 017815. **Owned and operated st's:** XEX, México City (with all sw, FM and rel. st's); XERPM 660kHz, México City; XEDK 1250kHz, Guadalajara, Jal; XEMR 1140kHz, XENL 860kHz, XENJ 1480kHz Monterrey, NL; XER 1260kHz Linares, NL; XEVM 960kHz Montemorelos.

B) **Radio Cadena Nacional** (with 65 affiliated st's) — **ADDR:** Vallarta 1, 6° piso, México 4, DF. **Te:** 469648. **L.P:** Dir. Gen: R. Cutberto Navarro. Dir. Tec: E. Diaz G. **Key st:** XERCN 1110kHz, México City. Other st's: XEACM 1110kHz Campeche; XELEO 1110kHz León. **D.Prgr:** All st's 12.00-06.00. **V:** reports not wanted.

The Mexican Gov. requires all st's to carry "La Hora Nacional del Gobierno Méxicano" every Mon 04.00-05.00.

Short Waves:

1) Dirección Federal de Educ. del Estado Chilpancingo, Guerrero.

2) Sria de Educacion Pública, Dirección de Asuntos Indigenas, Sección Administrativa, México DF (tr. at Semachique, Chih).

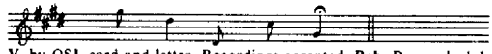
3) Gobierno del Estado de Jalisco, Palacio de Gobierno, Guadalajara. **L.P:** Dir. Gen: F. R. González. Dir. Tec: E. Beas.

4) Zaragoza 84, Coyoacan, DF (Tr. at Sisoguichi, Chih).

5) Insurgentes Sur 1870, México, DF. **Te:** 242868. **L.P:** Dir. Gen: E. Guillermo Salas. Gen. Mgr: C. Flores. Dir. Tec: Ing. J. Garcia R. **D.Prgr:** (all st's: 12.00-08.00). **N:** 13.30, 14.30, 16.00, 18.00, 20.00, 21.00, 22.00, 01.00, 02.00, 03.00, 04.25. **Ann:** "XEOY y XEOI, R. Mil de la Cuidad de México". **V.** by letter. Recordings accepted. **FM:** 100.9 MHz 10kW (XEPH = R. 590, XECO = R. Eco, XEBS = R. Sinofola, XEUR = R. Union, Texcoco).

6) Av. Independencia 230, Veracruz, Ver. **Ann:** "XEU de Veracruz y XEUW El Eco de Sotavento". **V.** by letter. Recordings accepted.

7) Apt. Postal 456, San Luis Potosi. **Te:** 2-52-52. **L.P:** Dir. Gen: C. Martinez Bravo. Dir. Tec: J. de La Luz Lomeli. Dir. Prgrs: R. Alonso M. **D.Prgr:** W 16.00–05.00, Sun 13.00–03.30. **Ann:** "Escucha Usted a R. Universidad XEXQ 1460kc y XEXQOC en 6045kc en la Ciudad de San Luis, Potosi, República Mexicana". **Int-Sig:** Marimba.



V. by QSL-card and letter. Recordings accepted. **Pub:** Prgr. schedule free.

8) Morelos 16, México, DF. XEXG: Apt. 484, León, Gto. **L.P:** Dir. Gen: M. O'Farrill. Dir. Tec: J. G. Torres. Dir. Prgrs: D. Perez A. XEX.rel st's (all on 730kHz): León (Gto) 100/50kW, Veracruz (Ver) 1kW and 5 st's of 0.5kW at Monterrey (NL), Saltillo (Coah), Torreon (Coah), Guadalajara (Jal), San Luis Potosi (SLP). **D.Prgr:** 12.00-06.00. **N:** 12.30, 12.55, 20.30, 05.00, 05.55; W 14.00, 17.00; also every 15 min (short bulletins). **Ann:** "Desde México, XEX en el 730 de su radio, canal internacional y sus estaciones en León, Veracruz, Monterrey, Saltillo, Torreon, Guadalajara y San Luis Potosi". **V.** by QSL-card or letter.

9) Apt. Postal 79, Ci Mante, Tams. **L.P:** Dir. Gen: R. Lopez Mendez. Dir. Tec: L. Fernandez C. **Ann:** "Escuchan ustedes a XECM onda larga y XECMT onda corta, operando por una vida mejor en el campo de México transmitiendo silmultaneamente desde Ciudad Mante, Tamaulipas, México". **V.** by letter.

10) Apt. Postal 217, Merida, Yuc. **Te:** 4071. **L.P:** Dir. Gen: R. Dominguez L. St. Mgr: A. Iglesias. Dir. Tec: H. Padron M. **N:** Every h on the h. **V.** by letter — XEMH: R. Merida, Ca, 62 No. 526, Merida Yuc — XEUP: La Voz del Caribe, Ca. 50 No. 410, Tizimin, Yuc — XEPY: La Voz del Mayab, Ca. 62, No. 508, Mérida.

11) Universidad de Sonora, Domicilio Conocido, Hermosillo, Son. **Te:** 36950. **L.P:** Dir. Gen: A. Merino M. Dir. Tec: Ing. M. R. Canale M. **Ann:** "Esta es R. Universidad de Sonora, transmitiendo a troyés de sus estaciones XEUS y XEUDS desde la Universidad de Sonora, en Hermosillo Sonora, México". E: "This is R. University of Sonora, broadc. on 850 and 6115kHz through its st's XEUS and XEUDS from the campus of the University of Sonora, at the city of Hermosillo, State of Sonora, Republica of México". **V.** by QSL-card. Recordings accepted.

12) Apt. 57, Tapachula. **Te:** 1836. **V.** by QSL-card. Recordings accepted.

13) Apt. Postal 7892, México, DF. **L.P:** Dir. Gen: R. Cutberto Navarro. Mgr: E. Nassar Jr. Dir. Tec: E. Diaz G. **D.Prgr:** 11.00-06.00. **N:** Every 5 min before the h. **Ann:** "Aqui México.....XERCN, Estación Piloto de R. Cadena Nacional.....". **V.** by letter.

14) Domicilio Conocido, Chihuahua, Chih.

15) R. Cadena Nacional, S.A., Apt. Postal 7892, México 4, DF. **Te:** 469648. **L.P:** Dir. Gen: D. R. Cutberto Navarro. Dir: M. Vazquez G. Dir. Tec: E. Diaz G. Dir. Adm: G. Lopez A. **D.Prgr:** 12.00-05.00 on 900/6165/9515kHz (Relay st: XEWA, XEWK, XEWA). **N:** 12.30, 13.35, 14.00, 14.45, 19.30, 20.30, 01.40, 04.20, 04.25, 05.30, 06.00. **Ann:** "XEW y XEWW, La Voz de la América Latina desde México, RCN, La Cadena Nacional, la que le gusta a Usted". **V.** by letter.

16) Ca. de Bucareli, México, DF (inactive both sw and mw).

17) Dr. Jimenez 244, México, DF. **L.P:** Dir: F. Delgado C. **V.** by letter. Rp. Recordings accepted.

18) Apt. Postal 74, Veracruz, Ver. **Te:** 2-22-50. **L.P:** Dir. Gen: J. de Dios Rodriguez D. Dir. Tec: L. Martinez. **N:** 13.15, 14.55, 03.15 and 5 min before each h to 05.55. **Ann:** "La Voz de Veracruz". **V.** by QSL-card.

19) Tiber 100, 90° piso, México 5, DF. **Te:** 110814. **L.P:** Dir. Gen: G. Mier y Teran. Dir. Tec: F. Gomez B. **D.Prgr:** 24 h. **Ann:** "XEQK, Emisoras de la Hora Exacta del Observatorio Astronómico Nacional". **V.** by QSL-card. Recordings accepted.

20) Oficinas Técnicas, Ci. Universitaria, México 20, DF. **Te:** 281157. **L.P:** Dir. Gen: J. Gutierrez H. Dir. Tec: O. Velasquez. Dir. Prgr: R. Lopez A. **D.Prgr:** 14.00-07.00 (Mon 04.00). **N:** W 14.30, 21.00 (exc. Sat), English 16.15, 01.15; French 16.00, 01.00; German 15.45, 00.45. **V.** by letter. **Ann:** "Esta es R. Universitaria Nacional de México transmitiendo simultaneamente en 860kHz onda larga, 9600kHz onda corta y 96.1MHz de FM". **V.** by letter.

21) Dr. Rio de la Loza 182, 20° piso, México, DF. **Te:** 18-52-00. **D.Prgr:** XEB/XEQ/XEDF (mw): 12.36-09.16. **N:** every h on the h; on XEQ special music and news prgr. at 05.00-06.00. **Ann:** On XEB: "En el 1220 de su radio, esta es XEB" or "Desde México, XEB en el 1220 de su radio, canal libre internacional". On XEQ: "XEQ desde México". **V.** by QSL-card or letter.

22) Quemada 40, México, DF.
23) P.O. Box 68, Hermosillo, Son. **D.Prgr:** (mw) 12.00-05.00. **N:** every h on the h. **Ann:** "XEBH, El Heraldo de Sonora desde Hermosillo". V. by letter.
24) A.R.S.E. S.A., Quemada 40, Col. Navarte, México, DF. **D.Prgr: N:** 13.31. 20.45, 00.15. 04.00.
25) Vazques de Mella 429, Desp. 101-A, Col. Polanco, México, DF.

Medium Waves:

26) **R. XEXL,** Zamora, 12, Jalapa, Ver.
27) **R. Mexicana de Mérida,** Ca. 64, No. 526, Mérida, Yuc.
28) **R. XEUC,** Hidalgo 19, Tehuantepec, Oax.
29) **R. XEOC,** Av. Chapultec 471, 40° piso, México, DF.
30) **R. XELQ,** Morelos Nte 68, Morelia, Mich.
31) **R. Impulsora de Culiacán,** Blvd. 50, Oriente, Culiacán, Sin.
32) **R. Oaxaca,** C. Bustamente 17, Oaxaca.
33) **R. XETJ,** Av. Lerdo de Tejada 1564, Torreón, Coah.
34) **R. XEVT/XEVX/XEVT,** Zaragoza Sur 3, Villahermosa, Tabasco: XEVX: Morelos 58, Comalcalco, Tab.
35) **R. Guadalajara,** Av. Vallarta 1458, Guadalajara, Jal.
36) **R. XEDZ,** Av. 3 No. 551, Cordoba, Ver.
37) **Pregonero del Edo de Chihuahua,** Libertad 1302, Chihuahua.
38) **R. XEHP,** Ca. 14 No. 150, Ci. Victoria, Tams.
39) **R. XEMU,** Carranza 3, Piedras Negra, Coah.
40) **La Voz de Chiapas,** Ca. Central 5, Tuxtla Gutierez, Chis.
41) **R. XEE,** 20 de Noviembre 122, Pte. Durango, Dgo.
42) **R. XEFD,** Carretera a Matamoros, Rio Bravo, Tams.
43) **R. Hermosillo,** Rosales y Vildósola, Hermosillo, Son.
44) **R. Acapulco,** Morelos 3, Acapulco, Gro.
45) **R. Dif. del Norte,** Av. Juarez 1465, Pte. Torreón, Coah.
46) **La Voz de la Peninsula,** Ca. 56 No. 508, Merida, Yuc.
47) **R. Coahuila,** Av. Carranza 164, Sabina, Coah.
48) **R. XEXV,** Francisco I. Madero 35, Ci. Valles, S.L.P.
49) **R. Dif. XEEL,** T. Larrey 4, Fresnillo, Zacatecas.
50) **R. Guasave,** Zaragosa 45, Guasave, Sin.
51) **R. XEJA,** Pasaje Tanos, Ca. Enriques, Jalapa, Ver.
52) **La Voz del Istmo Tehuantepec,** Tehuantepec, Oax.
53) **R. XEUF,** Portal Rafaez Carrillo 8, Uruapan, Mich.
54) **R. XEBU,** V. Carranza 1816-18, Chihuahua, Chih.
55) **R. Dif. XECK,** 20 de Noviembre y Victoria, Durango, Dgo.
56) **R. 620,** Balderas 32, México, DF.
57) **R. XEOO,** Lerdo 197, Pte. Tepic, Nayarit.
58) **La Voz de Acapulco,** Acapulco, Gro.
59) **R. XEACM,** Sáenz 45, Villahermosa, Tab.
60) **Emis. Incorporadas de Monterrey,** 5 de Mayo 112, Monterrey, NL.
61) **R. XEFU,** Hidalgo 36, Cosamaloapan, Ver.
62) **R. Emis. Occidental,** Angel Flores 8, Mazatlan, Sin.
63) **R. XETNT,** Los Mochis, Sin.
64) **La Voz del Comercio,** 5 de Mayo 30, Zamora, Mich.
65) **R. XERPM,** Dr. Rio de la Loza 56, México, DF.
66) **R. Sis. del Pacifico,** KM 126 Cra. Guadalajara, Ci. Guzman, Jal.
67) **La Voz de Coahúila,** Matamoros, Coah.
68) **R. XEFJ,** B. Juarez 86, Teziutlan, Pue.
69) **R. XEFO,** Chihuahua, Chih.
70) **R. Soconusco,** Parque Infantil, Tapachula, Chipas.
71) **R. Impulsora del Centro,** Paseo de los Insurgentes 1, León, Gto.
72) **R. XEORO,** Apt. Postal 61, Guasave, Sin.
73) **R. Sistema México,** Dr. Rio de la Loza 182, México, DF.
74) **R. del Pacifico,** Esq. Lerma y Bravo, Tijuana, BC.
75) **R. XEAR** (Zapopan) & **XEMIA** (Chalapa), Ave. Colon 115, Guadalajara, Jal.
76) **R. Dif. XEBL,** Blvd. 5 Febrero 50, Culiacán, Sin.
77) **R. Paraiso,** Acapulco, Gro.
78) **R. XEON,** la Av. Norte 2, Tuxtla, Gutierréz, Chis.
79) **R. XERL,** 27 de Septiembre 290, Colima, Col.
80) **R. Melodia 76,** Tonalá, Jal.
81) **México Radio,** Los Reyes, Mex.
82) **R. Durango,** Durango, Dgo.
83) **R. XEBI,** Madero 310, Aguascalientes, Ags.
84) **R. XEFE,** Aldama 2611, Nuevo Laredo, Tams.
85) **R. XEGZ,** Apt. Postal 6, Ci. Lerdo, Dgo.
86) **R. XENT,** Apt. 105, La Paz, BC.
87) Articulo 123, No. 90, México, DF. **XERC:** R. Popular de México. **XEQR:** Corporación Mexicana de Radio. **XEPJ:** R. América. **XEAI:** R. Aeropuerto. **XELZ:** R. Variedades. **D.Prgr:** 12.30-08.30.
88) **R. TV Parral,** Hotel Victoria, Chihuahua, Chih.
89) **R. XESU,** Edif. Bertha, desp. 222, Mexicali, BC.
90) **R. Tabasco,** Av. Pino Suarez 24A. Villahermosa, Tab.
91) **R. Ocotlán,** Juarez 127, Ocotlán, Jal.
92) **R. Dif. Continental,** Mérida 1155, Ci. Juarez, Chih.
93) **R. XEMMM,** Blvd 14, Tijuana, BC.
94) **R. XEFW,** Madero 416, Ote. Tampico, Tams.
95) **R. XEOE,** Tapachula, Chis.
96) **R. XERSV,** Rep. de Ecúador 225 Súr, Ci. Obregon, Son.
97) **R. XEUX,** Hidalgo y Progreso, Tuxpan, Nayarit.
98) **R. Tapatia,** Av. de las Ciencias 260, Guadalajara, Jal.
99) **R. Fortin,** Apt. 4, Fortin, Ver.
100) **R. Metropolitan,** Tiber 100, México, DF.
101) **R. XENSM,** Calz. Almada 29, Altos 8, Navolato, Sin.
102) **R. Dif. XEFG,** Independencia y Madero, Celaya Gunajuato. **L.P:** Dir: R. Olivares G.
103) **R. XETQ,** Oriente 4 No. 5-B, Orizaba, Ver.
104) **R. XEML,** J. J. Calvo 100-B, Chihuahua, Chih.
105) **R. XEZR,** Zaragoza 505 sur, Zaragoza, Coah. **D.Prgr:** 12.00-02.00. V. by letter.
106) **R. Dif. XEAL,** Balbino Davalos 17, Manzanillo, Col.
107) **R. XEDU,** 20 de Noviembre 105, Pte. Durango, Dgo.
108) **R. XEMO,** Apt. 860, Tijuana, BC.
109) **Propulsora del Radio,** Francisco I Madero, Monterrey NL.
110) **R. XENW,** Matamoros 14, Culiacán, Sin.
111) **R. XERK,** Av. México 224 Nte, Tepic, Nay.
112) **R. XEZX,** Ca. 26 No. 5, Tenosique, Tab.
113) **R. Dif. XEEM,** Aldama 55, Rio Verde, S.L.P.
114) **R. XETZ,** Tequila, Jal.
115) **R. XEHO,** Veracruz 63 Sur Altos, Ci. Obregon, Son.
116) **R. XEBM,** Jardin Hidalgo 15, San Luis Potosi, S.L.P.
117) **R. Culiacán,** Escobedo 226, Pte. Culiacán, Sin.
118) **R. XEMJ,** Zaragoza Sur 607, Piedras Negras, Coah.
119) **R. Tapatia,** Av. de las Ciencias 260, Guadalajara, Jal.
120) **R. XEOK,** Xicotencatl 1051, Monterrey, NL.
121) **R. 920 de Chihuahua,** Ca. Victoria 319, Chihuahua, Chih.
122) **R. XEWV,** Apt. 1553, Mexicali, BC.
123) **R. XEGM,** Av. "G" 185, Tijuana, BC.
124) **R. TV del Valle,** Montemorelos, NL.
125) **Television Nortena,** Apt. Postal 16, Nueva Rosita, Coah.
126) **El Pregonero del Bravo,** Gen. Gonzales 1609, Nuevo Laredo, Tams.
127) **R. XECS,** Zaragoza y Allende, Manzanillo, Col.
128) **R. XEGB,** 3a Hidalgo 37, Coatzacoalcos, Ver.
129) **R. XEHK,** P. Moreno 315, Desp. 203-205, Guadalajara, Jal.
130) **R. Dif. XEOZ,** Paseja Enriques Local F, Jalapa, Ver.
131) **R. XEIQ,** Sinaloa 418 Sur, Ci. Obregon, Son.
132) **R. XEKS,** A. Zaragoza Lado Nte, Saltillo, Coah.
133) **R. Promotora de Morelia,** Bartolomé de las Casas 230, Morelia, Mich.
134) **R. Dif. XEROO,** La Voz de Quintana Roo, Chetumal, QR.
135) **Mexican Broadc. Co,** Constitución 402, Ci. Juárez, Chih.
136) **R. El Callo,** Ca. Novena 49, Matamoros, Tams.
137) **R. TV de Ci Victoria,** Matamoros 738, Ci. Victoria, Tams.
138) **R. XEJC,** Apt. Postal 106, Apatzingan, Mich.
139) **R. XEOW,** L. Valle y Aquiles Serdan, Mazatlán, Sin.
140) **R. XEOZ,** Pasaje Enriques Local F, Jalara, Ver.
141) **Univ. de Guanajuato,** Domicilio Conocido, Guanajuato, Gto. **D.Prgr:** 15.00-07.00. V. by letter. Rp. Recordings accepted.
142) **R. Navojoa,** Morelos y Toledo, Navojoa, Son.
143) **R. XELC,** Av. Francisco I. Madero 116, La Piedad.
144) **R. XENR,** Júarez 6, Altos, Nueva Rosita, Coah.
145) **R. Guerétaro,** Querétaro, Gro.
146) **Impulsora Moderna del Radio,** Ca. Muelle y S. Diaz, Tampico.
147) **Radiofonica de Nayarit,** Veracruz Nte. 135, Tepic, Nay.
148) **El Pregonero del Norte,** 15 de Mayo Ote 650, Monterrey, NL.
149) **R. Ciudad Guzmán,** Artes 53 y 57, Ci. Guzmán, Jal.
150) **R. XECL,** Av. Madero 621, Mexicali, BC.
151) **R. Dif. XEHZ,** Carret Transpeninzular Km 5, La Paz, BC.
152) **R. Dif. XEFV,** Maxtla 519, Ci. Juaréz, Chih.
153) **R. XEFM,** Av. Independencia 144, Veracruz, Ver.
154) **R. XEHL,** Av. de las Ciencias 260, Guadalajara, Jal.
155) **R. XEDX,** Km 100, Carretera a Tijuana, Ensenada, B.C.
156) **R. Casas Grande,** Av. P. Diaz y Minerva 400, Nuevo Casas Grandes, Chih.
157) **Emisoras de Torreón,** Av. Juaréz 1465, Torreón, Coah.
158) **R. XEWS,** Rubi 20, Nte. Depto 1, Culiacán, Sin.
159) **R. Dif. XEXL,** Portal Arteaga 2, Patzcuaro, Mich.
160) **R. XED,** Edif. Bertha, desp. 222, Mexicali, BC.
161) **La Voz de Norteamerica,** Cuauhtemoc Norte 725, Monterrey, NL.
162) **R. Tehuacán,** Av. Libertad 113-4, Tehuacán, Pue.
163) **R. Carmen,** Av. Ultimo Paseo y Ca. 43, Ci. del Carmen, Campeche.
164) **R. Impulsora de Occidente,** Av. 16 de Septiembre 520, Guadalajara, Jal.
165) **Radiof. Veracruzana,** Boca del Rio, Ver.
166) **Interamericana de Radio,** Edif. Calif. desp. 2, Tijuana, BC.
167) **R. Laredo,** Maclovio Herrera 3422, Nuevo Laredo, Tams.
168) **R. Sistema del Bajio,** León Gto.
169) **R. Dif XEOQ,** Apt. Postal 301, Rio Bravo, Tams.
170) **R. XETR,** Laredo 29 Sur, Ci. Valles, S.L.P.
171) **R. Impulsora de Jalisco,** Guadalajara, Jal.
172) **R. Dif. Moderna,** Pasaje Revolución Local 5, Jalapa, Ver. **D.Prgr:** 12.00-06.00. V. by QSL-card or letter. Recordings accepted.
173) **Propulsora del Radio,** Madero y Venustiano Carranza, Monterrey, NL.
174) **R. XEXF,** Romita, Gto.
175) **R. Sinfonia,** Av. de las Ciencias 260, Guadalajara, Jal.
176) **R. Coahuila,** Av. Hidalgo Pte. 309, San Pedro de las Colonias, Coah.
177) **R. XEJS,** Colegio 14, Hidalgo del Parral, Chih.
178) **R. Comercial de Baja California,** Ley de Alfabetizacion 257, Mexicali, BC.
179) **R. XERTM,** Constitución 9, Macuspana, Tab.
180) **R. XEXZ,** Miguel Lauza 10, Zacatecas, Zac.
181) **R. XEIW,** Mazatlan 30, Uruapan, Mich.
182) **R. Televisora Siglo XX,** Apt Postal 52, Reynosa, Tams.
183) **R. Felicidad,** Calz. Sta. Anita 137, Mexico, DF.
184) **R. XEMBC,** Mexicali, BC.
185) **R. Dif. XEPZ,** Ci. Juarez, Chih.
186) **La Voz Comercial de Michoagan,** Apt. Postal 16, Zacapu, Mich.
187) **R. Television de Tampico,** Diaz Miron 310, Tampico, Tams.
188) **R. Delicias,** Av. 4a y Ca. 4a Norte, Ci. Delicias, Chih.
189) **R. XEBQ,** Av. Serdan y Ca. 22, Guaymas, Son.
190) **R. XELD,** Apt. Postal 7, Autlan de Navarro, Jal. **D.Prgr:** 13.00-01.00. V. by letter. Recordings accepted.
191) **R. XELM,** Tuxtla, Gutiérrez, Chis.
192) **R. XENG,** Huauchinango, Pue.
193) **R. Television del Bajio,** Edif. "Sears", León, Gto.
194) **R. Televisora de Jalisco,** 16 de Septiembre 456, Guadalajara, Jal. V. by letter. Rp.
195) **R. XEDL,** Angel Flores 26, Ptes. Hermosillo, Son.
196) **R. Emis. Querétana,** Av. Zaragoza Pte. 15, Queretaro, Qro.
197) **R. XEPI,** Carretera Chilapa y Las Frondas, Tixtla, Gro.
198) **R. Saltillo,** M. Acuna Sur 102, "C", Saltillo, Coah.
199) **R. Impulsora Herdez,** Insurgentes 70 Sur, México, DF.
200) **R. Linares,** Carretera Nacional México Laredo, Linares.
201) **R. XEMF,** Zaragoza 158, Monclova, Coah.

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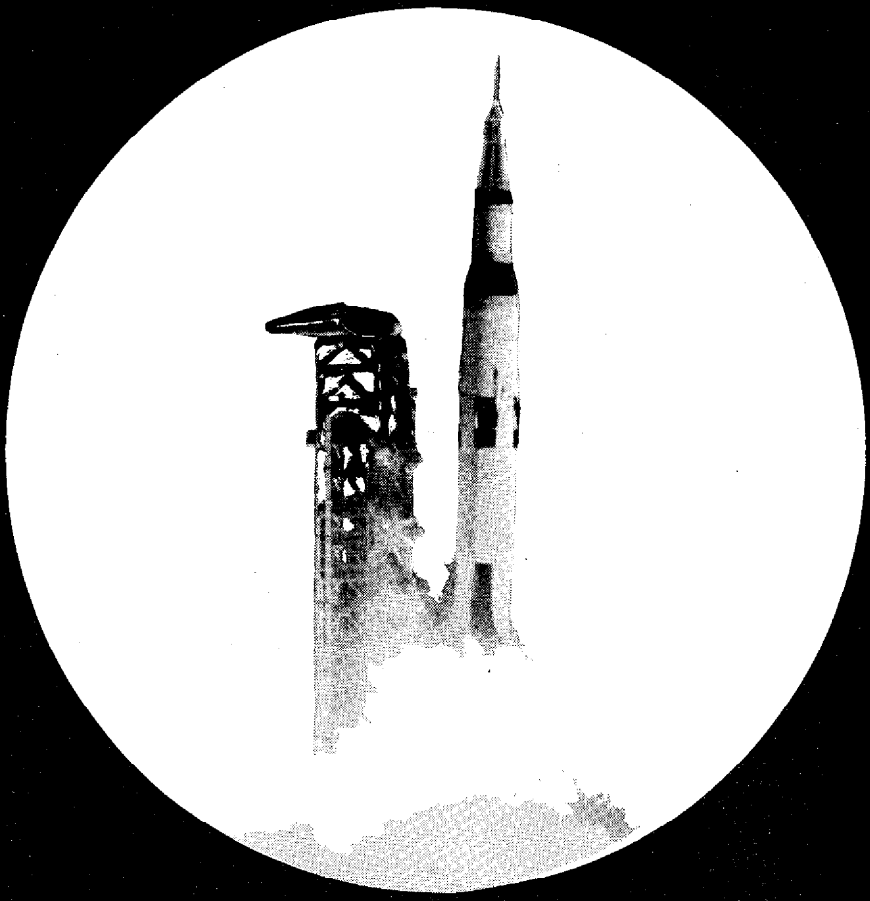

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202) **R. Dif. XEOG,** Libertad 1302 altos, Chihuahua, Chih.
203) **R. XEAX,** Av. M. Garcia Vigil 5, Oaxaxa, Oax.
204) **R. XEGL,** Av. Juárez 9, Navojoa, Son.
205) **R. Dif. XEMW,** Apt. Postal 203, San Luis Rio Colorado, Son.
206) **R. XENY,** Av. Alvaro Obregon 38-1, Nogales, Son.
207) **R. XEPV,** Mina 1, Papantla de Olarte, Ver.
208) **Promotores de Radio,** Madero 15, Zacapu, Mich.
209) **R. XEAG,** Ca. 2, 121, Córdoba, Ver.
210) **R. XEAW,** Ca. Paricutin 316, Monterrey, NL.
211) **R. Emis del Norte,** Av. V. Carranza 514, Chihuahua, Chih.
212) **R. Campeche,** Campeche, Cam.
213) **R. XEAP,** Sinaloa 206, Ci. Obregon, Son.
214) **R. XEIX,** Jiquilpan, Mich.
215) **R. XEJL,** Independencia 27, Guamuchil, Sin.
216) **R. XELE,** Muelle 304, Sur, Tampico, Tams.
217) **R. XEP,** 16 Septiembre 100, Ci. Juarez, Chih.
218) **R. Tropical,** Ca. Belli 229, Martinez de la Torre, Ver.
219) **R. XEKW,** Le jarza 90, Morelia, Mich.
220) **R. Dif. XESW,** Km 1, Carret. Madera, Ci. Madera, Chih.
221) **R. XEXW,** Obregón 51, Nogales, Son.
222) **R. XEAM,** Carretera, Matamoros Victoria, Matamoros, Tams.
223) **La Voz de la Laguna,** Cepeda Sur 409, Torreón, Coah.
224) **R. XEFH,** Ca. 5a y Av. Panamericana, Agua Prieta, Son.
225) **R. Heroica,** Ocampo 50 Desp. 301, Veracruz, Ver.
226) **R. XEIZ,** Villa de Guadalupe, NL.
227) **Ondas Populares,** V. Carranza 4-A, San Luis Potosi, SLP.
228) **R. Sinfonia,** Av. de las Ciencias 260, Guadalajara, Jal.
229) **R. XENI,** Av. Lazaro Cardenás 67, Nueva Italia, Mich.
230) **R. Mazatlan,** M. Escobedo y B. Dominguez, Mazatlan, Sin.
231) **R. XEUH,** Finca L. Angeles, Zaragoza 1625, Tuxtepec, Oax.
232) **R. XEUI,** Hotel Los Lagos, Comitan, Chis.
233) **R. XEBO,** Morelos y 5 de Mayo, Irapuato, Gto.
234) **R. XEFC,** Ca. 64 No. 498, Mérida, Yuc.
235) **R. XERP,** A. Obregon y 2 de Enero, Ci. Madero, Tams.
236) **R. XEUZ,** Av. Avila Camacho y Victoria, Martinez de la Torre, Ver.
237) **R. XEWQ,** Hidalgo 229, Nte, Monclovia, Coah.
238) **R. XECW,** Rosendo o Castro y Allende 302, Los Mochis, Sin.
239) **La Voz de Delicias,** Av. Agricultura y Ca. 4a No. 605, Delicias, Chih.
240) **R. XEDKT,** 16 de Septiembre 456, 20° piso, Guadalajara, Jal.
241) **R. Favorita,** Ca. Luis de S. José 3, Coatepec, Ver.
242) **R. XENV,** Av. Madero 305 Ote, Monterrey, NL.
243) **R. XEOM,** Zaragoza y Corregidora, Coatzacoales, Ver.
244) **R. XEJF,** Constitucion 40, Tierra Blanca, Ver.
245) **R. XEMA,** Av. Hidalgo 316, Fresnillo, Zac.
246) **R. Futurama,** Julian de los Reyes 69, San Luis Potosi, SLP.
247) **R. Laguna,** Valdez Carillo 223 Sur, Torreón, Coah.
248) **R. XETM,** Av. Fco. I. Madero 26, Naco, Son.
249) **R. XEY/XENC,** Apt. Postal 116, Celaya, Gto. **D.Prgr:** 12.00–05.00. **V.** by letter. Recordings accepted.
250) **R. XEKF,** Av. Ruiz Cortinez 35, Iguala, Gro.
251) **La Voz de Sinaloa,** M. Escobedo Pte 65, Culiacán, Sin.
252) **R. XEA,** Ca. 12 No. 110, Campeche, Cam.
253) **R. XEHF,** Altos Edif. Banco Agric. Ganadero, Nogales, Son.
254) **R. Dif. XEPA,** Ca. 7 Pte 102, Puebla, Pue.
255) **R. XEGW,** 13 Hidalgo y Juárez, Ci. Victoria, Tams. **D.Prgr:** 11.30–05.00. **V.** by letter. Recordings accepted. **F.Pl:** El Limon XEYP (1kW).
256) **R. El Callo,** P. J. Mendéz, 154 Ote, Reynosa, Tams.
257) **R. XETL,** Av. Morelos 3, Tuxpan, Ver.
258) **R. XEAB,** Av. Obregón 207-S, Santa Ana, Son.
259) **R. XETY,** Cerro de Ortega, Tecomán, Col.
260) **R. Dif. XEGD,** M. Herrera 79, Hidalgo del Parral Chih. **V.** by letter. Recordings accepted.
261) **R. XEI,** Portal Hidalgo 213, Morelia Mich.
262) **R. Mar,** Plaza Alvarez, Acapulco, Gro.
263) **R. XELH,** Acaponeta, Nay.
264) **R. XEPB,** Yucatan 36 Pte, Hermosillo, Son.
265) **R. Tiempo,** Fco. I Madero y Muelle, Edif. Obregón Desp. 112, Tampico, Tams.
266) **R. XEVV,** Chiapa de Corzo, Chis.
267) **R. XEAS,** Guerrero y Madero Altos, Nuevo Laredo, Tams.
268) **R. XECF,** Rosales 201 Nte, Los Mochis, Sin.
269) **Promotriz Radiofónica,** Atemajac, Jal.
270) **La Voz de Tabasco,** Villahermosa, Tal.
271) **R. XEF,** Pasaje R. Corona 2, Ci. Juarez, Chih.
272) **R. Monterrey,** 5 de Mayo 110, Monterrey, NL.
273) **R. XEEW,** Edif. Card. Galván, Matamoros, Tams.
274) **R. Irapuato,** Apt. Postal 118, Irapuato, Gto. **D.Prgr:** 11.30-05.30.
275) **R. XEWJ,** Reforma 205-C, Tehuacan, Puebla.
276) **R. XEXX,** Revolución y Octava, Tijuana, BC.
277) **R. Dif. XEIG,** Aladama 14, Iguala, Gro.
278) **R. Jorocha,** Ocampo 50, Despacho 301, Veracruz, Ver.
279) **R. XELY,** Morelos Nte 68, Morelia, Mich.
280) **R. XEOX,** Veracruz 63 Sur, Ci. Obregón, Son. **XEHX:** N. Héroes 219, Ci. Obregón, **XENH** (Tr. at Escuinapa, Sin).
281) **R. XERAC,** Ca. 59 Nr. 332, Campeche, Cam.
282) **R. Dif. XEWD,** Ca. Sexta 702, Ci. Miguel Aleman, Tams.
283) **R. XEDJ,** Av. Escobedo 98, Magdalena, Son.
284) **R. XEGC,** Constitución 165, Sahuayo, Mich.
285) **R. Tropicana,** 20 de Noviembre 54, Poza Rica, Ver.
286) **R. Emis. Querétana,** Av. Zaragoza Pte 15, Querétaro, Qro.
287) **La Voz de Orizaba,** Poniente 7 No. 57, Orizaba, Ver.
288) **R. XEVH,** Ca. Hidalgo, Entre la y 2a, Valle Hermoso, Tams.
289) **R. XEHE,** Calz. de los Ausentes 146, Altonilco El Alto, Jal.
290) **Musica Radiofónica,** Altamira, Tams. **D.Prgr:** 12.00–04.00.
291) **R. XELX,** Av. Revolución 194, Zitacuaro, Mich.
292) **R. XEYC,** Av. 16 de Septiembre, Ci. Juárez, Chih.
293) **R. XEBBC,** Edif. Madero 840-3, Tijuana, BC.
294) **R. Colima,** Apt. 147, Colima, Col.
295) **R. Dif. XEHI,** Ca. Séptime 105, Ci. Miguel Aleman, Tams.
296) **Emis. de Durango,** Colonia Nueva Viscaya, Durango, Dgo.
297) **R. Dif. Comm. XESM,** Rebsaman 241, Col. Narvarte, Mexico, DF.
298) **R. XEYA,** Irapuato, Gto.
299) **R. Dif. XEHM,** Ci. Delicias, Chih.
300) **R. XENS,** Av. Obregón y Ca. Pesqueira, Navojoa, Son.
301) **Radiofonica de Poza Rica,** Ca. 6 Nte 2, Poza Rica, Ver.
302) **R. XEDR,** Av. Serdán 283, Altos, Guaymas, Son.
301) **Radiofonica de Poza Rica,** Ca. 6 Nte 2, Poza Rica, Ver.
302) **R. XEDR,** Av. Serdán 283, Altos, Guaymas, Son.
303) **R. Dif. XEED,** Grania "El Brillante" Ameca, Jal.
304) **R. Dif. XEFF,** Morelos 4, Matehuala, S.L.P.
305) **R. Zamora,** 5 de Mayo Sur, Zamora, Mich. **L.P:** Dir: M. A. Sánchez.
306) **R. XEVZ,** Enriques 18, Acayucan, Ver.
307) **R. XEXE,** Km 219.2 Carretera Panamericana, Queretaro, Qro.
308) **R. Silao,** 5 de Mayo s/n, Silao, Gto.
309) **R. XEBG,** Centro Comercial Blvd. 13, Tijuana, BC.
310) **R. XENU,** Av. Madero 2201, altos, Nuevo Laredo, Tams.
311) **R. XERX,** Morelos 104, Salamanca, Gto.
312) **R. XEVIP,** Ci. Satélite, Méx.
313) **Cia R. Dif. de Coahuila,** Galeana 130 Pte. altos, Ci. Acuña.
314) **R. Pacifico,** Matamoros, Hermosillo, Son.
315) **La Voz del Sur,** Km 273, Carretera México-Acapulco, Chilpancingo, Gro.
316) **R. Tulancingo,** Plaza Constitución y M. Soto, Tulancingo, Hgo. **D.Prgr:** 12.00–04.00. **V.** by letter. Recordings accepted.
317) **R. XEQL,** Apt. Postal 40, Zamora, Mich.
318) **La Voz de Meoqui,** Ca. 4a, Norte 605, Meoqui, Chih.
319) **R. Impulsora del Norte,** Guerrero y Ocampo 450, Ci. Acuña, Coah. **D.Prgr:** 24 h. **V.** by letter. Re. to P.O. Box 970, Del Rio, Texas, USA.

NETHERLANDS ANTILLES

L.T: GMT + 4 h — **Pr.L:** Papiamento, Dutch, English, Spanish French, Portuguese.

RADIO CUROM — CURACAO

(Foundation: Curacaosche R. Vereeniging — non profit foundation).
ADDR: P.O. Box 31, Willemstad, Curacao. **Te:** 12555. **Cable:** Curaver.
STATION (System: RCA): PJC-2 855kHz 350.9m 5kW.
HOME SCE: W 10.30-03.00; Sun 13.00-17.00, 20.00-03.00.
Dutch: 10.30-20.00(Sun 13.00-17.00), 22.30-03.00. **N:** 11.00, 12.00, 14.30*, 16.30, 22.30**, 23.00, 02.00 — **Papiamento:** 20.00-22.30(Sun 20.00-21.00). **N:** 16.00, 22.00 — * exc. Sat, ** Sun only.
ANN: "This is R. Curom in Willemstad, Curacao, Neth. Antilles". Dutch: "Hier is de Curom te Willemstad op Curacao op een frequentie van 855kc perioden per sec." — **INT-SIG:** Part of the Curom-march, played by a big band — **V.** by letter. Rp — **FI:** by adv. and donations of members.

RADIO HOYER (Cultural, Comm.)

ADDR: Julianaplain 21, Willemstad. **Te:** 11673. **Cable:** Radioyer.
L.P: Dir. Gen: H. E. Hoyer.
STATIONS: PJC7-1 1010kHz; PJC7-2 1500kHz; PJB2 1385kHz (all 1kW).
HOME SCE: W 09.30-04.30, Sun 12.30-03.30. Spanish/Papiamento on 1010kHz; Dutch/English on 1500kHz; Spanish/Papiamento/Dutch/English on 1385kHz: W 11.30-18.30, 22.30-02.30, Sun 14.30-17.30, 22.30-02.30.
ANN: English: "This is station PJC7 R. Hoyer transmitting on . . . ." — **V.** by QSL-card — **FI:** Hoyer 1 and 3 by adv. Hoyer 2 on cultural basis.

RADIO CARIBE (Comm.)

ADDR: Nieuwestraat 22B, Willemstad. **Te:** 12801. **Cable:** R. Caribe.
L.P: Dir. Gen: C. R. Heillegger. Dir. Tec: G. A. T. Heillegger.
STATION: PJL3 1230kHz 0.25kW — 1540kHz 1kW.
HOME SCE: 10.00(Sun 12.00)-04.00 — **W: Papiamento:** 10.00-17.00, 19.00-22.00, 01.00-04.00. **N:** 16.15-17.00 — **Spanish:** 17.00-19.00, 22.00-01.00. **N:** 17.00, 18.00(VOA), 22.00, 00.15 — **Sun: English:** (rlg. prgr's): 12.00-14.00, 22.00-23.00 — **Papiamento:** 14.00-17.00, 18.30-22.00, 23.00-04.00 — **Spanish:** 17.00-18.30 (Port music with ann. in Sp.) **N:** 18.15 — **V.** by letter. Recordings accepted.

ARUBA

RADIO KELKBOOM (Comm.)

ADDR: P.O. Box 146, Oranjestad. **Cable:** Kelkboom. **Te:** 1899.
L.P: Mgr: C. A. Kelkboom.
STATION (System: Gates): PJA5 1435kHz 209.1m 1kW.
HOME SCE: 11.00 (Sun 14.00)–02.00 — **Papiamento: N:** 11.30, 12.30, 14.00, 15.00, 16.15, 16.45, 20.30, 22.00 — **Spanish:** Tues, Sat 00.15–00.45 — **Dutch:** Sun 14.30–15.00, 16.30–17.00, 20.00–20.30, 23.45–24.00; Tues 18.30–19.00; Wed 01.15–01.45 — **ANN:** Dutch: "Hier PJA-5 R. Kelkboom te Oranjestad Aruba". E: "This is PJA-5 R. Kelkboom at Oranjestad Aruba". Papiamento: "Ta transmiti R. Kelkboom PJA-5 na Oranjestad, Aruba" — **V.** by QSL-card. Rp.

RADIO VICTORIA (Owned and sponsored by The Evangelical Alliance Mission.)

ADDR: P.O. Box 410, Aruba. **Te:** 7090. **Cable:** Team — **L.P:** Mgr: Rev. P. J. Pietsch Jr. Chief Eng: R. C. Mitchell.
HOME SCE. (G.C: 69.58W/12.28N): PJA6 920kHz 326.1m 10kW. W 10.30-03.00, Sun 11.00-01.00.
English: W 11.30-12.00, 13.30-15.30, 16.30-19.30, 23.15-01.30. **N:** 11.30, 16.30, 22.30; Sun 11.00-13.00, 20.00-01.00 — **Dutch:** W 22.45-23.15, 01.30-03.30. **N:** 23.00, 02.30; Sun 14.30-15.00 — **Spanish & Papiamento:** W 10.30-11.30, 12.00-13.30, 15.30-16.30, 19.30-22.00; Sun 13.00-14.30, 15.00-20.00 **N:** Every h 11.00-22.00 & 11.15-20.15 (W only).
ANN: "This is R. Victoria, The Cultural Voice of the Caribbean". Dutch: "Dit is R. Victoria, de Culturele Stem van het Caribbish Gebied". Sp: "Transmite R. Victoria, La Voz Cultural del Caribe" —

Trans World Radio

Broadcasting in 28 languages to Europe, North Africa, the Middle East and the Americas.

Monte Carlo
Bonaire

PAUL E. FREED, Ph.D.
President

RALPH FREED, D.D.
General Director

PUB: Prgr. Sched. free upon request — **V.** by letter. Rp. Recordings accepted — **FI:** By comm. & adv. and free will offerings.

RADIO ANTILIANA (Comm.)
ADDR: Bernardstraat 61, St. Nicolaas. **Te:** 5602.
STATIONS (System Philips): PJA8 1270kHz 1kW.
HOME SCE. in Papiamento, English, Dutch: Sun-Fri 09.30-05.00, Sat 09.30-08.00. N(W): **English:** 10.40, 11.40, 14.40, 16.35, 17.00. **Papiamento:** 11.00, 12.00, 13.30, 16.50, 17.30, 21.30, 23.00 — **ANN:** "This is st. PJA8, R. Antiliana, transmitting on a freq. of 1270kHz which equals a wavelength of 236.2m, from studios located in Bernardstraat, San Nicolaas, Aruba, Isle of progress in the NA" — **V.** by letter. Recordings accepted.

"VOICE OF ARUBA" (Comm.)
ADDR: P.O. Box 219, Oranjestad. **L.P:** Dir. Tec: D. Chirino.
STATION: PJA-10 1325kHz 1kW.
HOME SCE. in Dutch, English, Spanish: 10.00-04.00.
ANN: "You are tuned to Station PJA-10, The Voice of Aruba, the Friendly Voice of Aruba for the Antilles" — **INT-SIG:** 4 note pipe organ, producing the Big Ben sound — **V.** by QSL-card or letter.

BONAIRE

TRANS WORLD RADIO (Cultural, Educational, Religious)
ADDR: Trans World Radio, Bonaire. **Te:** 8800. **Cable:** Votan. **L.P:** Pres: Dr. P. E. Freed. Dir. Gen: Dr. R. Freed. St. Mgr: W. P. Mial. Dir. Tec: R. Kennedy, R. E. Schultz.
STATIONS: 800kHz 375m 500kW.
Shortwaves: One tr. 50kW, one tr. 260kW (G.C: 68.17W/12.09N).

kHz	m	kHz	m	kHz	m	kHz	m
6110	49.10	9730	30.83	11820	25.38	15250	19.67
9605	31.23	11740	25.55	15140	19.82	15350	19.54
9695	30.94	11815	25.39	15220	19.71		

Schedule and freq's subject to change.
D.PRGR'S: On 800kHz: 08.00-09.00 Portuguese, 09.00-11.00 Spanish, 11.00-12.40(Sun 15.00) **English;** 21.45-22.00(Sun) Dutch; 21.45-22.00 (Sat) Norwegian; 22.00-22.15 French; 22.15-23.00 Spanish; 23.00-23.30 Portuguese; 23.15-23.30(Wed, Thurs only) German; 01.30-02.00 Spanish; 02.00-04.00 English; 04.00-04.40 Spanish — **N: English:** 11.00, 12.30, 03.30. **Spanish:** 09.25, 22.20, 04.30.

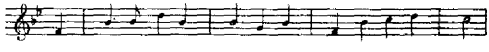
Short Wave Schedule: I = So. America; II = No. America; III = Ce. America; IV = East & Far East; V = Europe.

Arabic/Armenian	kHz		Beam	English		kHz	Beam
04.30-04.45	IV	11820	43°	00.30-01.20	IV	11820**	43°
Eastern European languages				02.25-03.40	II	9695*	335°
04.45-05.00	IV	11820	43°	11.00-12.55[1]	II	11820*	335°
20.00-20.10	V	15250	43°	21.00-21.30	V	15250	43°

French		kHz	Beam	Russian		kHz	Beam
20.10-20.25	V	15250	43°	01.00-01.30	I	15350	170°
22.00-22.15	V	11815*	43°	04.00-04.30	V	11820	43°
German							
00.30-01.00	I	15350*	170°	**Spanish**			
20.30-21.00	V	15250	43°	00.10-00.25	I	15350**	170°
23.30-23.55	I	15350**	170°	01.30-02.20	I	15350*	170°
23.55-00.10[2]	I	15350**	170°	09.30-11.00	I	9730	170°
Portuguese				21.30-21.45	V	11815*	43°
08.00-09.00	I	6110	170°	09.00-09.30	I	6110*	170°
21.45-22.00	V	11815*	43°	22.20-23.00	I	15350*	170°
23.00-23.30	I	15350*	170°	23.30-00.20	III	9605*	285°
23.55-00.10[3]	I	15350**	170°	23.55-00.10[4]	I	15350**	170°

*) 50kW; **) 260kW: [1]) Sun 15.00; [2]) Thurs only; [3]) Mon/Wed/Sat; [4]) Sun/Tues/Fri.

RELAY R. NEDERLAND: On 15220kHz: 20.00-21.30 Dutch to Africa; 21.30-22.20 English to Africa, 22.30-23.20 Spanish to So. America. **On 800kHz:** 23.30-00.20 Spanish, 00.20-01.10 English, 01.10-01.20 Dutch. **On 11740kHz:** 01.30-02.20 English to No. America, 02.30-03.50 Dutch to No. America, 04.00-04.50 Spanish to Ce. America.
ANN: "This is the international sound of the Carribean, Trans World Radio, Bonaire" — **INT-SIG:** "Stand up, Stand up for Jesus" played on trumpet.



V. by QSL-card Rp preferred. IRC's replied by airmail, all other correspondence by surface mail. Re in E & Sp. no tapes — **PUB:** Prgr schedule free — **FI:** Voluntary contributions from individuals, organisations, foundations, churches.

THE VOICE OF BONAIRE (Comm.)
ADDR & L.P: See R. Hoyer.
STATION: PJB2 1385kHz 1kW.
HOME SCE: W 11.30-18.30, 22.30-02.30; Sun 14.30-17.30, 22.30-02.30.

ST. MAARTEN

THE VOICE OF SINT MAARTEN (Comm. Religious).
ADDR: P.O. Box 175, St. Maarten. **Te:** 2373 — **L.P:** Dir: N. C. Walthey. Gen. Mgr: R. A. Mayer. Assist. Mgr: F. W. Vlaun.
STATION: PJD2 1595kHz 231.7m 10kW.
HOME SCE. in English, French & Dutch: 09.00-02.00.
ANN: "This is the Voice of Sint Maarten, R. Station PJD-2 1295kHz, the Gospel Voice of the Eastern Caribbean, Proclaiming Jesus Deliverance to you and yours, from the island of St. Maarten, NA, the beach island of the Caribbean" — **V.** by QSL-card.

NICARAGUA

L.T: GMT —6 h — **Pr.L:** Spanish.

JEFATURA DEL RADIO NACIONAL,

STATIONS: All st's comm. exc. 13) (Gov), 6) (Cultural), 20) (Rel).

Short Waves: Call: YN—.

	Call	kHz	m	kW	Name and h of tr.
1)	RG	5955	50.38	0.5	R. Zelaya, Bluefields
2)	WA	5965	50.29	0.5	R. Mundial, Managua: 11.00-05.00
3)	XB	6075	49.38	1	R. Tissey, Estelí
4)	HC	6100	49.18	0.4	R. Hernandéz de Cordobas, Ocotal
5)	CA	6120	49.02	1	R. Atlanta, Bluefields
6)	JM	6200	48.39	1	R. Norte, Somoto
7)	TZ	9550	31.41	1	R. Jinotega, Jinotega
8)	TP	9580	31.32	0.5	R. Mar, Pto. Cabezas

Medium Waves: Call: YN—. ° = Short Wave.

	Call	kHz	kW		Call	kHz	kW
9)	OW	540	3	32)	P	1080	5
10)	G	555	3	33)	AE	1090	1
11)	RR	570	5	34)	Q	1100	3
12)	RD	590	10	35)	XP	1115	1
13)	M	615	10	36)	RC	1130	10
14)	WW	650	1	37)	BC	1150	5
15)	D	675	15	38)	WW	1170	1
16)	SC	700	10	39)	C	1200	0.5
17)	S	725	1	40)	OP	1220	0.5
18)	X	750	50	41)	CW	1230	3
2)	W	780	1	42)	SV	1240	1
19)	O	800	10	43)	ABC	1260	1
20)	OL	825	15	44)	WX	1270	2.5
21)	MG	840	1	45)	RPS	1285	2
22)	AV	850	10	32)	P	1310	2
2)	W	875	1	46)	EB	1330	1
23)	OX	885	10	47)	DM	1340	0.5
24)	WS	900	5	48)	GF	1360	0.25
2)	W	°930	10	18)	X	1400	1
9)	OW	950	1	49)	MS	1410	1
25)	LU	965	5	50)	AJ	1430	10
26)	CR	980	0.5	9)	OW	1440	1
27)	T	1000	10	51)	TJ	1460	0.3
28)	VOZ	1015	3	52)	AG	1475	2
2)	W	1025	1	53)	PT	1500	1.5
29)	CN	1035	2	54)	CZ	1515	1
30)	LL	1050	2	9)	OW	1570	1
31)	TV	1070	0.5	55)	AW	1590	0.75

Short Waves:

1) Apt. 72, Bluefields. **L.P:** Dir: R. Austin G. **D.Prgr:** English: 11.40-12.04. **V.** by QSL-card. Rp.
2) 5a Av. N.O. 703, Managua. **Te:** 3851. **L.P:** Dir. Gen: Prof. J. C. Sandoval. Gen. Mgr: Ing. M. Arana Valle. Dir. Tec: F. Arana Valle.
3) Estelí. **L.P:** Dir: J. Ronôm B.
4) Ocotal. **L.P:** Dir: N. A. Madrigal.
5) Bluefields. **L.P:** Dir: S. Sandoval de Mena.
6) Somoto. **L.P:** Dir: J. J. Molina.
7) Jinotega. **L.P:** Dir: T. Morales M.
8) Pto. Cabezas. **L.P:** Dir: R. Perez U.

Medium Waves:

9) **R. Corporación,** Apt. 2442, Managua.
10) **R. Tic Tac,** Chinandega.
11) **R. Regalos,** Managua.
12) **R. Quinientosnoventa,** Managua.
13) **R. difusora Nacional,** Edif. Bernard, Managua. **Ann:** "Paz Libertad, Progreso, transmite R. dif. Nacional de Nicaragua". **V.** by letter.
14) **R. Granada,** Granada. **L.P:** M. Arana V.
15) **Union Radio,** Apt. 1148, Managua. **Ann:** "Union R. La Onda Musical y Deportiva 675kHz, Managua de la Cadena Inter-Americana RNYW de New York". **V.** by QSL-card and letter.
16) **R. Centauro,** Managua.
17) **R. Titania,** Leon.
18) **R. Equis,** Apt. 1505, Managua. **Te:** 5404. **Cable:** Tevenic. **L.P:** Dir. Gen: R. O. Caño. Dir. Tec: J. Maria C. Dir. Prgrs: M. Jiron C. **D.Prgr:** 11.00-06.00. **Ann:** "Estación Equis, en la Patria de Ruben Dario año del Centenario". **Int-Sig:** Xylophone. **V.** by letter.
19) **R. Ivania,** Managua.
20) **R. Ondas de Luz,** Apt. 607, Managua. **L.P:** Dir: F. M. Doña. **D.Prgr: Spanish:** 12.00-03.00. **English:** 03.00-04.00. **N:** 18.00, 01.00, 04.00. **Ann:** Sp: "En sintonia con R. Ondas de Luz, única emisora en el país sin anuncios comerciales con su lema Orientando su camino con la Luz de la Verdad". E: "You are in tune with the radio voice of YNOL, "Waves of Lights" from Managua, the beautiful land of lakes and volcanoes". **V.** by QSL-card or letter.
21) **R. Pinares,** Ocotal.
22) **R. Continental,** Managua. **L.P:** Dir: M. Valle Q.
23) **R. Libertad,** Managua.
24) **R. Alma Nica,** Managua.
25) **R. Managua,** Managua.
26) **R. Mongalo,** Rivas.
27) **R. Mil,** Managua.
28) **R. Reloj,** Managua.
29) **R. Central,** Chinandega.
30) **R. Masaya,** Masaya.
31) **R. Centro,** Granada.
32) **R. Circuito,** Managua.
33) **R. Musun,** Matagalpa.
34) **La Voz de la Victoria,** Managua.
35) **R. Circuito,** Leon.
36) **R. Católica de Nicaragua,** Apt. 1130, Managua. **V.** by letter.
37) **R. Ondas Segovia,** Estelí.
38) **R. Darío,** Leon.
39) **R. Capital,** Managua.
40) **R. Cultural,** Jinotepe.
41) **R. Occidental,** Chinandega.
42) **R. El Mundo,** Managua.
43) **R. Gueguense,** Managua.
44) **R. Atenas,** Ca. Santiago Argüello, Leon.
45) **La Voz de Chinandega,** Chinandega.
46) **R. Fronteras,** Estelí.
47) **Ondas Sonoras,** Managua.
48) **Ondas del Sur,** Jinotepe.
49) **Ondas Populares,** Leon.
50) **R. Voz de América,** Managua.
51) **R. Ecos de las Brumas,** Jinotega.
52) **R. Cosiguina,** Chinandega.
53) **R. Tierra Pinolera,** Managua.
54) **R. Progreso,** Leon.
55) **R. Colimas,** Jinotega.

PANAMA

L.T: GMT — 5 h — **Pr.L:** Spanish.

DIRECCION TECNICA DE RADIOCOMUNICACIONES

ADDR: Apt. 3422, Panamá 1. **Cable:** Dirgentel Radio — **L.P:** Ing: F. A. Lamparero.

ASOCIACION PANAMENA DE RADIODIFUSION

ADDR: Apt. 7387, Panamá.

STATIONS: C = Circuito. * = currently inactive.

All st's comm. exc. 8) (Rlg), 22) (Cultural & Rlg), 23) (Mil).

Short Waves:

	Call	kHz	m	kW	Name and h of tr.
1)	HOM50	5995	50.04	1	C.R.P.C, Panamá: 10.30-05.00
2)	HOU31	6045	49.63	1	La Voz del Baru, David: 11.00-04.00
1)	HOF31	9685	30.98	1	Onda Popular, Panamá: 12.00-05.00

Medium Waves: Call HO — —. ° = Short Waves.

	Call	kHz	kW		Call	kHz	kW
3)	U23	540	0.25	29)	J23	1080	1
4)	N31	550	1	30)	R58	1100	1
1)	H2	560	0.25	7)	M21	1120	1
5)	O23	575	0.25	1)	F47	1120	1
1)	H3	590	1	31)	J	1130	1
1)	HM	°610	5	12)	B49	1140	1
6)	K	640	0.25	32)	S25	1150	0.25
7)	S22	650	10	33)	NZ	1170	0.25
1)	H4	660	1	34)	OC	1180	1
8)	LY	670	1	35)	L47	1190	1
9)	F32	680	0.5	36)	E91	1210	4
10)	A	700	1	37)	K36	1220	1
11)	B52	710	1	38)	B56	1230	1
12)	B50	720	1	39)	M56	1240	1
13)	HP5C	730	1	40)	Q	1250	0.25
14)	XO	760	5	29)	J22	1270	0.5
15)	ACA20	790	5	41)	U80	1280	0.25
16)	L60	800	1	7)	S23	1290	1
1)	F33	810	1	42)	K3	1310	0.25
17)	L55	820	1	43)	M92	1330	1
18)	G	830	0.25	44)	G53	1360	0.25
4)	N32	840	10	45)	O38	1370	1
19)	HO	870	1	28)	J60	°1380	0.25
12)	B51	880	0.25	42)	L	1390	1
20)	R34	890	1	46)	HS	1400	1
21)	HA	900	0.5	47)	RS	1410	0.5
7)	S56	920	1	15)	SCN	1420	1
22)	X	940	1	6)	C	1440	0.25
23)	B33	950	1	48)	D42	1460	0.25
1)	F	°965	3	49)	OH	1470	1
24)	R59	990	1	50)	R43	1490	0.25
25)	U44	1015	1	51)	N	1500	1
1)	F2	1020	0.25	52)	A95	1505	1
2)	U	°1025	1	53)	R20	1520	1
26)	S21	1035	1	54)	E28	1540	1
27)	J2	1045	1	55)	E35	1570	0.1
28)	HPM21	1060	1				

Short Waves:

1) Apt. 1795, Panamá. **Te:** 25-0160. **Cable:** Erepece. **L.P:** Dir. Gen: M. Barral. St. Mgr: J. de la Guardia. Dir. Tec: L. O'Meally. **D. Prgr:** 10.30-05.00. **N:** 11.30, 17.30, 22.30, 04.30. **Ann:** "Circuito RPC, Panamá, República de Panamá y tambien usamos: RPC-Radio Panamá". **V.** by letter. Recordings accepted (HOHM Panamá, HOH2 Colón, HOH3 Chitre, HOH4 David, HOF33 Bocas del Toro). **V.** by letter.

Onda Popular: HOF Panamá, HOF2 Colón. **Ann:** "Onda Popular. **V.** by QSL-card. Re in Sp. or E.

2) Apt. 160, David.

Medium Waves:

3) **R. Mia,** Penonomé.
4) **R. Aeropuerto,** Apt. 4824, Panamá.
5) **R. Capital,** Panamá.
6) **Cadena Panameña de Radiodif,** Apt. 33, Colón.
7) **R. Mia,** Apt. 5117, Panamá. **D. Prgr:** 10.00-04.30.
8) **R. Hogar,** Apt. 1979, Panamá. **Te:** 3-5425. **Ann:** "R. Hogar, una emisora al servicio de la paz y la verdad". **V.** by letter. Re. in Sp. E.
9) **R. Centenario,** Apt. 3, Puerto Armuelles.
10) **R. Panamericana,** Apt. 1121, Panamá.
11) **Ondas del Caribe,** Bocas del Toro.
12) **Cadena Universal,** Panamá.
13) **R. Cadena Miramar,** Apt. 1214, Panamá. **Te:** 30239. **V.** by QSL-card.
14) **La Voz del Istmo,** Apt. 3269, Panamá. **ANN:** E: "This is HOXO, the Voice of the Isthmus, 760kHz in Panamá". Sp: "Esta es La Voz del Istmo, 760kHz en Panamá. HOXO". **V.** by QSL-card.

15) **Southern Command Network (AFRTS),** Ft. Clayton, Canal Zone.
16) **R. Villarreal,** Serrano.
17) **R. Reforma,** Apt. 1201, Chitré, **V.** by QSL-card and letter.
18) **Estación de la Communidad,** Apt. 1121, Panamá.
19) **R. Musical,** Apt. 355, Panamá.
20) **Ondas del Pacifico,** David.
21) **La Voz del Pueblo,** Apt. 1045, Panamá.
22) **R. TV-2,** Panamá.
23) **R. Cultura,** Apt. 249, Concepción.
24) **R. Impacto,** Panamá.
25) **R. Reloj,** Apt. 5124, Panamá.
26) **R. Unión,** Panamá.
27) **Ondas del Canajagua,** Apt. 10, Las Tablas. **D. Prgr:** 24 h. **V.** by letter.
28) **La Voz de Panamá,** Apt 867, Panamá. HPM21: **R. Mil Sesenta,** Panamá. **V.** by letter.
29) **Radio la Tribuna,** Panamá.
30) **R. Mil Cien,** Apt. 100, Panamá.
31) **R. Provincias,** Apt. 1174, Chitré.
32) **R. Mia de Colón,** Colón.
33) **Ondas Istmeñas.** Apt. 3237, Panamá.
34) **Ondas Chiricanas,** Apt. 172, Panamá.
35) **R. Soberana,** Panamá.
36) **R. El Mundo,** Apt. 1566, Panamá.
37) **R. Poderosa,** Aguadulce.
38) **R. Macarocos.**
39) **R. Reloj,** Apt. 328, David.
40) **R. Nacional,** Apt. 552, Panamá.
41) **La Voz del Vigia,** Aguadulce.
42) **R. Atlantico,** Apt. 44, Colón. (HOK3: La Onda de la Alegria). **V.** by QSL-card.
43) **Canal 13,** Panamá.
44) **R. Cultural,** Chilibre.
45) **R. Colosal,** David.
46) **Ondas Centrales,** Santiago.
47) **R. Selecta,** Apt. 4369, Panamá.
48) **La Voz de Almirante,** Ca. 6a y Av. N. Almirante, Bocas del Toro. **L.P:** Dir's: N. O. Dosman, A. Bodkin. **D.Prgr:** W 13.00-20.00, 22.00-04.00. Sun 13.00-01.00. **V.** by QSL-card. Recordings accepted. Rp.
49) **R. Libre,** Apt. 4545, Panamá.
50) **R. Exito,** Chorrera.
51) **La Voz de la Victor,** Apt. 33, Colón.
52) **Cabina 95,** Panamá.
53) **R. Coclé,** Penonomé.
54) **R. TNT,** Panamá.
55) **R. Once,** Colón

PUERTO RICO

L.T: GMT – 4 h — **Pr.L:** Spanish, English.

BROADCASTERS ASSOCIATION OF PUERTO RICO

ADDR: P.O.Q, Hato Rey. **L.P:** Exec. Secr: T. Maldonado Jr.
STATIONS: All st's comm. exc. 13), 27) — *) also FM.

	Call	kHz	kW		Call	kHz	kW
1)	WPAB	550*	5/1	16)	WLEO	1170	0.25
2)	WKAQ	580*	5	19)	WNIK	1230*	1/0.25
3)	WAEL	600*	1	20)	WISO	1260	1
4)	WKYN	630*	1	21)	WCMN	1280*	5/1
5)	WAPA	680	10	22)	WTIL	1300	1
6)	WKJB	710*	1	23)	WUNO	1320	5/1
7)	WIAC	740*	10	24)	WGRF	1340	0.25
8)	WORA	760*	5	25)	WIVW	1370	1
9)	WKVM	810	25	26)	WVOZ	1400	0.25
10)	WABA	850*	0.5	27)	WEUC	1420	1
11)	WHOA	870	5	28)	WNEL	1430	5/0.5
12)	WPRP	910	5/0.5	29)	WFBA	1460	0.5
13)	WIPR	940*	10	30)	WMDD	1480	5
14)	WPRA	990	1	31)	WRAI	1520	0.25
15)	WMIA	1070	0.5	32)	WKFE	1550	0.25
16)	WLEY	1080	0.25	33)	WRSJ	1560	5/0.25
17)	WVJP	1110	0.25	34)	WXRF	1590	1
18)	WITA	1140*	0.5				

D. Prgr: Generally 10.00-04.00 exc. 11), 19), 24), 29), 30): 24 h.
1) **Portorican American Broadc. Co,** P.O. Box 786, Ponce 00731. **L.P:** Pres. & Gen. Mgr: A. Gimenez-Aguayo. Comm. Mgr: L. W. Morales. Dir. Tec: A. Gimenez Jr. **N:** Every half h. **V.** by letter.
2) **El Mundo Broadc. Corp,** G.P.O. Box 4668, San Juan 00936. **L.P:** Gen. Mgr: V. Lamas, Jr. Dir. Tec: J. Arzuaga. **D. Prgr:** 09.30-04.00. **V.** by letter. Recordings accepted.
3) **WAEL Inc,** Box AE, Mayaguez 00708. **L.P:** Pres. & Gen. Mgr: M. Pirallo. Comm. Mgr: F. Marcias. **D.Prgr:** 10.00-03.00.
4) **Quality Broadc. Corp,** Box 9986, San Juan 00908. **L.P:** Pres: A. R. de Arellno Jr. St. Mgr: A. Merrill.
5) **Hearst Radio Inc,** Box 4563, San Juan 00905. **L.P:** Vice Pres. & Gen. Mgr: Ray Owen. **D.Prgr:** 09.10-04.00.
6) **Emisora WKJB,** Box 1293, Mayaguez 00709. **L.P:** Pres: J. A. Bechara Jr. Gen. Mgr: I. Mendez Lopez. Comm. Mgr: E. O. Gemma.
7) **Bestov Broadc. Inc,** Box 4504, San Juan. **L.P:** Gen. Mgr: L. A. Mejia.
8) **R. Americas, Corp,** Box 43, Mayaguez 00708. **L.P:** Mgr: G. A. Tryon. Dir. Tec: H. Nicolas. **V.** by letter.
9) **American Colonial Broadc. Corp,** Box 4189, San Juan. **L.P:** Pres. & Gen. Mgr: R. P. Perry. **D.Prgr:** 09.30-05.00.
10) **R. WABA,** Box 188, Aguadilla 00603. **L.P:** Gen. Mgr: F. Bonnet. **D.Prgr:** 09.45-04.00 (Sun 11.00-02.00).
11) **Continental Broadc. Corp,** Box V, Hato Rey 00919. **L.P:** Pres. & Gen Mgr: C. Mendez.
12) **Voice of Puerto Rico,** Box 430, Ponce 00731. **L.P:** Pres. & Gen. Mgr: A. R. de Arellano. **D.Prgr:** 09.45-03.15.
13) **Dept. of Education of P.R,** P.O. Box 909, Hato Rey 00919. **Ann:** "These are st's WIPR and WIPR-FM in San Juan, Puerto Rico". **V.** by QSL-card.
14) **WPRA, Inc,** Box 869, Mayaguez. 11708. **L.P:** Pres. & Gen. Mgr: A. Camara. Comm. Mgr: Pedro Ojeda.
15) **Abacoa R. Corp,** Box 1055, Arecibo 00613. **L.P:** Gen. & Comm. Mgr: E. Rodriguez-Velez.
16) **Ponce Broadc. Corp,** Box 1186, Cayey. **L.P:** Gen. Mgr: Ch. Cordero. Dir. Tec: J. Conesa. **D.Prgr:** W 09.00–03.00 (Sat 05.00), Sun 11.00–03.00 (WLEO: 24 h).
17) **Borinquen Broadc. Co,** Box 207, Caguas 00626. **L.P:** Gen. Mgr: H. Pereira. **D.Prgr:** 09.30–03.00.
18) **Electronics Enterprises Inc,** Box 2692, San Juan 00903. **L.P:** Pres. & Gen. Mgr: A. A. Valdivieso.
19) **Arecibo R. Corp,** Box 908, Arecibo 00903. **L.P:** Gen. Mgr: D. Ortiz. **V.** by letter.
20) **South Puerto Rico Broadc. Corp,** Box 2023, Ponce. **Te:** 842-4124. **L.P:** Gen. & Comm. Mgr: L. E. Freyre. Dir. Tec: M. Delgado. **V.** by letter. Rp. Recordings accepted.
21) **Caribbean Broadc. Corp.** Box 436, Arecibo, 00612. **L.P:** Gen. & Comm. Mgr: N. Barreto. **D.Prgr:** 10.00-03.00.
22) **Mayaguez R. Corp,** Box 1360, Mayaguez 00708. **L.P:** Pres. & Gen. Mgr: G. Mamery.
23) **San Juan Broadc. Corp,** Box Q, Hato Rey. 00919. **L.P:** Gen. Mgr: M. A. Escudero.
24) **Jaicoa Broadc. Co,** Box 766, Aguadilla 00603. **L.P:** Gen. Mgr: M. A. del Valle. **D.Prgr:** 10.00–03.00.
25) **WIVV Missionary Radio Station,** Box 1904, Hato Rey. **Te:** 60919. **L.P:** Dir: D. Lutterell. Dir. Tec: W. T. Forrester. Dir. Prgr: Ruth Lutterell. **D.Prgr:** 09.30–02.30. **N. in English:** 11.00, 17.00, 23.00 **Mbg:** 19.00–21.00. **V.** by letter. **Pub:** WIVV Radio News.
26) **R. WVOZ,** Darlington Hotel Bldg, Rio Piedras 00925. **L.P:** St. Mgr: P. Roman-Collazo. Dir. Tec: J. Calderon. **V.** by letter. Recordings accepted.
27) **Catholic University of Puerto Rico,** Service Assn. Campus, Ponce. **Te:** 8422031. **L.P:** Gen. Mgr: Rev. P. Ballester. Dir: M. F. Cuestra.
28) **R. Tiempo,** Box 5369, San Juan 00906. **L.P:** Pres. & Gen. Mgr: Quinones Jr.
29) **Radio Pepino,** Box 127, San Sebastian. **Te:** 896-1005. **L.P:** Dir. Gen. & Tec. Dir: R. Vega. Asst. Dir: M. T. Lebrón. **V.** by letter. Recordings accepted.
30) **Pan Caribbean Broadc. Corp,** Box 387, Fajardo 00648. **L.P:** Gen. Mgr: J. L. Torregrosa. Comm. Mgr: L. Jimenez. **D.Prgr:** 10.00–02.00. **V.** by QSL-card.
31) **R. Aeropuerto,** Box 1262, Hato Rey 00919. **L.P:** Pres. & Gen. Mgr: C. Pirallo Lopez. **D.Prgr:** 10.00-05.00.
32) **R. Emisora WKFE,** Box 324, Yuaco 00768. **D.Prgr:** 10.00–02.00.
33) **R. San Juan,** P.O. Box 5627, San Juan 00905. **L.P:** Gen. Mgr: M. S. Martinez. **D.Prgr:** 09.30-05.00.
34) **Guayama Broadc. Co,** Box 615, Guayama 00655. **L.P:** Pres: R. Fuster Jr. **D.Prgr:** 10.00–02.00. **V.** by QSL-card.

ARMED FORCES RADIO & TV SERVICE: see USA

TRINIDAD & TOBAGO

L.T: GMT – 4 h — **Pr.L:** English.

TRINIDAD BROADCASTING CO. (Comm.)

ADDR: Broadc. House, 11B Maraval Rd, Port-of-Spain. **Te:** 21151. **Cable:** Broadcast — **L.P:** St. Mgr: P. E. M. Hesketh. Dir. Tec: E. R. McDowell. Dir. Prgr: Mrs. J. Gonsalves. Sales Mgr: S. Ghany.
STATIONS: 730kHz 410m 20kW — **FM:** 95.1MHz 1kW.
HOME SCE, in English: D 10.00–03.15. **N:** 10.00, 10.45, 11.00*, 12.00, 13.00*, 14.00, 15.00, 16.00*, 16.30, 17.00, 18.00*, 19.00, 20.00*, 21.00, 22.00, 23.00, 23.45, 01.45, 02.00*, 02.15, 03.00* — *) incl. Wrp. — **ANN:** "This is R. Trinidad, first with the news" — **V.** by letter. Recordings accepted — **ALF:** $2.40.

RADIO GUARDIAN (Comm.)

ADDR: 17 Abercromby St, Port-of-Spain. **Te:** 32618. **Cable:** Voice. **L.P:** Gen. Mgr: P. A. Pitts. Dir. Tec: F. Thompson. Dir. Prgr: L. de Leon.
STATION: VPL6 610kHz 491.8m 10kW — **FM:** 98.9MHz 0.25kW.
HOME SCE, in English: 09.56-03.07. **N:** on the h (BBC/WS 12.00, 18.00) — **Gov. Prgr:** 00.00 — **Wrp:** On the half h.
ANN: "This is R. Guardian, The Voice of Trinidad & Tobago" — **INT-SIG:** At sign-on: The tune "Yellow Bird, Choucoun Destiny" played on Guitar & Xylophone — **V.** by letter. Rp.

TURK & CAICOS ISLANDS (British)

L.T: GMT – 5 h — **Pr.L:** English.

RADIO STATION VS18

ADDR: Cable and Wireless (West Indies) Ltd, Mercury House, Grand Turk. **Te:** 2. **Cable:** Cablewire — **L.P:** St. Mgr: Peter A. Wolfe.
STATION: VS18 4560kHz 65.79m 0.2kW.
D.PRGR'S: N. in English: 18.30 (10 to 20 min's) — **ANN:** "R. St. VS18 owned and operated by Cable and Wireless (W.I.) Limited" **V.** by letter. Rp — **ALF:** £0-10-0.

VIRGIN ISLANDS (American)

L.T: GMT – 4 h — **Pr.L:** English.

RADIO AMERICAN WEST INDIES INC. (Comm.)

ADDR: P.O. Box 310, Christiansted, St. Croix. **Te:** 733-0390 — **L.P:** Dir. Gen: Mrs. H. M. Higdon. St. Mgr: Mrs. M. P. Lang. Dir. Tec:

Virgin Islands — Argentina

R. E. Higdon — **STATION:** WIVI 970kHz 5kW — **FM:** 99.5MHz **D.PRGR:** 24 h — **N: English:** On the h (Headlines on the half h) **Wrp:** 17.15 — **Spanish:** 14.00-16.00 — **ANN:** "This is WIVI, 970 on your dial, located at Fort Louise Augusta, Christiansted, St. Croix, US Virgin Islands".

RADIO STATION WSTA (Comm.)
ADDR: P.O. Box 2577, St. Thomas, US Virgin Islands 00802. **Te:** 774-1340. **Cable:** WSTA. **L.P:** Gen. Mgr: J. Dale. Chief Eng: W. Greer.
STATION: 1340kHz 0.25kW — **HOME SCE:** 10.00-04.00. **N:** Every h on the h at 11.00-03.00; also at 21.45, 03.55 — **ANN:** "This is WSTA-1340 on your dial in St. Thomas, Virgin Islands" — **V.** by letter. Recordings accepted — **F.PL:** 1kW.

ISLAND TELERADIO SERVICE INC. (Comm.)
ADDR: P.O. Box 1947, St. Thomas, US Virgin Island 00801. **Te:** 774-10300. **Cable:** WBNB — **L.P:** Pres: R. Moss. Secr. Treasurer: R. E. Noble.
STATION: WBNB 1000kHz 300.0m 1kW.
HOME SCE. in English: W 10.00-04.00, Sun 12.00-03.00. **N:** on the h — **ANN:** "WBNB, Radio Ten, St. Thomas" — **V.** by letter. Rp.

VIRGIN ISLANDS (British)

L.T: GMT — 4 h — **Pr.L:** English.

VIRGIN ISLANDS BROADC. Ltd. (Comm.)
ADDR: Road Town, Tortola — **L.P:** St. Mgr: L. N. Mills.
STATION: ZBVI 780kHz 384.6m 10kW — **HOME SCE. in English:** 10.00(Sun 12.30)-01.00 — **ANN:** "This is R. st. ZBVI, the Virgin Isl. Broadc." — **V.** by letter.

WINDWARD ISLANDS

L.T: GMT — 4 h — **Pr.L:** English.

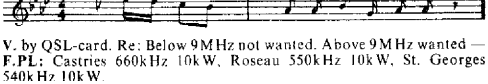
WINDWARD ISLANDS BROADCASTING SERVICE (Gov.)
ADDR: St George's, Grenada, W.I. **Te:** 4251. **Cable:** Broadcasts — **L.P:** Man. Dir: L. M. Seon (Acting). Dir. Tec: R. A. Smith, Memb. I.E.E.E.
HOME SCE: a) Grenada, b) Dominica, c) St. Vincent, d) St. Lucia, e) Carriacou.

St. George's	a) 535kHz 0.5kW	Chateaubelair	c) 1535kHz 0.1kW
Castries	d) 1565kHz 0.25kW	Kingstown	c) 705kHz 0.5kW
Roseau	b) 695kHz 0.5kW	Carriacou	e) 1045kHz 0.1kW

All mw's: 15.45-02.15.
Short Waves (G.C: 61.46W/12.01N):
3280kHz 91.40m 5kW: 21.35-02.15
5015kHz 59.82m 5kW: 15.45-22.45
9550kHz 31.41m 5kW: 15.45-18.30
N. in English (W only): 16.00*, 16.40, 16.55, 17.15, 18.00*, 20.00*, 20.20, 20.30, 22.30, 23.00*, 23.45, 02.00 — *) = BBC.
OVERSEAS SERVICE: All st's 5kW.
I = Jamaica; II = British Isles; A = Nov-Feb; B = March-Oct.

kHz	m	Period	Times	Area
11700	25.64	A	20.45 (21.30)-22.45	II
11970	25.06	A + B	23.25-02.15	I
15100	19.87	A	19.45-20.45 (21.30)	II
		B	21.30-22.45	II
15180	19.76	A + B	18.30-19.50 (irr)	II
21690	13.83	B	19.45-21.30	II

ANN: "This is the Winward Islands Broadc. Sce."
INT-SIG: A typical calypso phrase played on the "ping-pong", an indigenous instrument made from the top of a steel drum.



V. by QSL-card. Re: Below 9MHz not wanted. Above 9MHz wanted — **F.PL:** Castries 660kHz 10kW, Roseau 550kHz 10kW, St. Georges 540kHz 10kW.

RADIO CARIBBEAN (Comm.)
ADDR: P.O. Box 121, Castries, St. Lucia, W.I. **Te:** 2637. **Cable:** Caradio — **L.P:** Dir: B. F. Bonsor. Mgr: A. F. K. Joynes.
STATION: 840kHz 357.1m 10kW.
HOME SCE. in English & French: W 10.00-18.30, 20.00-02.30; Sun 11.00-18.30, 20.00-02.30.
English: 12.30-14.30(W), 20.00-22.00(D). **French:** W 10.00-12.30, 14.30-18.30, 22.00-02.30. Sun 11.00-18.30, 22.00-02.30. **N:** W 10.30, 11.00, 11.45, 12.15, 17.00, 23.00, 01.00. Sun 11.30, 17.00, 23.00, 01.00. **Request Prgr:** French: 23.30, English: 20.45.
ANN: E: "This is R. Caribbean International, St. Lucia, broadc. on a freq. of 840kHz in the mw band". F: "Ici R. Caraibes International, Ste. Lucie, émettant sur 840kHz" — **V.** by letter. Rp.

The **World Radio TV Handbook** is the only international handbook of its kind.
World Radio TV Handbook is used by the managing directors and engineering staffs of radio & television stations. Equipment manufacturers looking for world markets are thus presented with an ideal medium for reaching all their potential customers in this fast growing field.
These facts give authority and weight to a sales message in the **World Radio TV Handbook.** It will help increase your sales because it will reach the technical staffs of radio and television stations, institutions, organizations, amateurs and short wave listners.

SOUTH AMERICA

ARGENTINA

L.T: April-Oct: GMT — 4 h; Oct-March: GMT — 3 h — **Pr.L:** Spanish.

SECRETARIA COMUNICACIONES
ADDR: Sarmiento 151, Buenos Aires. **Te:** 31-5031. **Cable:** Gentel-Baires. **L.P:** Secr. Gen: J. A. Teglia.

CONSEJO NACIONAL DE RADIODIFUSION Y TELEVISION (CONART)
ADDR: Ayacucho 1556, Buenos Aires. **L.P:** Dir: J. B. Olivieri.

R NACIONAL (Servicio Oficial de Radiodifusion—Gov.)
ADDR: Ayacucho 1556, Buenos Aires. **Te:** 84-2021 — **L.P:** Dir: Dr. T. E. Flores.
HOME SERVICE: Short Waves: * = Sat/Sun only.

Call	kHz	m	kW	Name and h of tr.
LRA31	6060	49.50	50	Buenos Aires 11.00-05.00
LRA34	6180	48.54	10	Mendoza 12.00-04.00
LRA32	9690	30.96	100	Buenos Aires 22.00-05.00
LRA33	15345	19.55	50	Buenos Aires 11.00-18.30

Medium Waves: ° = Short Wave

Call	kHz	kW	Name	h of tr.
LRA14	540	25/5	Santa Fé	12.00-04.00
LRA13	560	10/3	Bahia Blanca	13.00-19.00, 22.00-04.00
LRA12	620	5	Santo Tomé	12.00-17.00, 20.00-04.00
LRA10	620	5	Ushuaia	14.00-18.00, 22.00-03.00
LRA9	690	5	Esquel	14.00-19.00, 22.00-04.00
LRA4	690	10/5	Salta	14.00-04.00
LRA3	730	20/3	Santa Rosa	14.00-04.00
LRA7	750	50	Córdoba	12.00-04.00
LRA8	780	5	Formosa	14.00-19.00, 23.00-04.00
LRA17	830	50	Zapala	15.00-18.00, 22.00-02.00
LRA	°870	100	Buenos Aires	12.00-05.00
LRA11	900	5	Comodoro Rivadavia	23.00-04.00
LRA6	°960	20/5	Mendoza	13.00-04.00
LRA15	1030	25/5	Tucumán	14.00-04.00
LRA16	1250	25/5	La Quiaca	14.00-02.00
LRA5	1310	5	Rosario	12.00-05.00

D.Prgr: N: 12.00, 16.00, 24.00 — **V.** by QSL-card.

INTERNATIONAL SERVICE
ADDR: Radiodif. Argentina al Exterior (RAE), Sarmiento 151, Buenos Aires — **L.P:** Head of Sce: A. H. Christiani.
STATIONS: G.C: LRA (Gral. Pacheco): 58.22W/34.36S — LRY (Hurlingham): 58.39W/34.35S. *) R. Belgrano tr's.

Call	kHz	m	kW	Beams	
LRY1	*6090	49.26	35	nd	19.00-22.00, 03.00-07.00
LRA32	9690	30.96	100	320°	00.00-07.00
LRA35	11710	25.62	100	35°	19.00-24.00
LRY2	*11780	25.47	8	nd	19.00-22.00, 03.00-07.00

TO EUROPE/NO. AFRICA/NEAR EAST: 19.00-24.00.
19.00-22.00 on 6090/11710/11780kHz (19.00 Spanish, 20.00 German, 21.00 Italian): 22.00-24.00 on 11710kHz (22.00 French, 23.00 English) **N:** Spanish 19.02, German 20.02, Italian 21.02, French 22.02, English 23.02.
TO NO. CE. & SO. AMERICA: 00.00-03.00 on 9690kHz (00.00 Portuguese, 01.00 Spanish); 03.00-07.00 on 6090/9690/11780kHz (03.00 English, 04.00 Spanish, 06.00 English) — **N:** Portuguese 00.02, Spanish 01.02, 04.02, English 03.02, 06.02.
TO ASIA: Japanese 09.00-10.00 on 9690kHz.
ANN: Sp: "Aqui Argentina". G: "Hier spricht Argentinien". I: "Qui Argentina". F: "Ici l'Argentine". E: "This is Argentina Calling". P: "Aqui Argentina" — **V.** by QSL-card.

OFFICIAL STATIONS (Gov.)

	Call	kHz	kW		Call	kHz	kW
1)	LS1	710	50	7)	LV18	1370	0.25
2)	LU14	730	5	8)	LR11	1390	5/2.5
3)	LT10	1020	10/5	9)	LU23	1430	0.25
4)	LT17	1250	5/2	10)	LV19	1470	0.25
5)	LS11	1270	30/5	11)	LT21	1520	0.1
6)	LV17	1360	0.25	12)	LT19	1550	0.25

1) **R. Municipal,** Arturo Toscanini 1168, Buenos Aires. **D.Prgr:** 10.00-06.00.
2) **R. Provincia de Santa Cruz,** Roca 825, Rio Gallegos, Sta. Cruz. **D.Prgr:** 12.00-06.00.
3) **R. Universidad del Litoral,** 9 de Julio 3550, Santa Fé. **D.Prgr:** 10.00-04.00.
4) **R. Provincia de Misiones,** Junin y Rioja, Posadas, Misiones. **D.Prgr:** 10.00-04.00.
5) **R. Provincia de Buenos Aires,** Ca. 10 y Av. 53, La Plata. **Te:** 3-9158. **D.Prgr:** 11.00-07.00.
6) **Municipal de Córdoba,** Marcelo T. de Alvear y 27 de Abril, Córdoba. **D.Prgr:** 11.00-01.30.
7) **R. Municipal de San Rafael,** Belgrano y Comandante Salas San Rafael, Mendoza. **D.Prgr:** 14.00-18.00.
8) **R. Universidad de La Plata,** Plaza Rocha 133, La Plata. **D.Prgr:** 20.00-04.00.
9) **R. El Turbio,** El Turbio, Santa Cruz. **D.Prgr:** 14.00-20.00.
10) **R. Municipal de Malargüe,** Malargüe, Mendoza. **D.Prgr:** 14.00-18.00, 20.00-24.00.
11) **R. Municipal de Alvear,** Alvear, Corrientes. **D.Prgr:** 12.45-17.00, 19.30-01.00.
12) **R. Municipal de Santo Tomé,** Hipólito Irigoyen 885, Santo Tomé, Corrientes. **D.Prgr:** 22.00-02.00.

SOUTH AMERICA
1:40 Mill.
KM
0
500
1000
1500
ATLANTIC OCEAN
PACIFIC OCEAN
EQUATOR
Netherlands Antilles
Windward Islands
BARRANQUILLA
CARTAGENA
CABELLO
MARACAIBO
MERIDA
CARACAS
BARQUISIMETO
CUMANA
PORT OF SPAIN
MATURIN
CUIDAD BOLIVAR
PANAMA
CUCUTA
SAN CRISTOBAL
MEDELLIN
BUCARAMANGA
MANIZALES
PEREIRA
BOGOTA
IBAGUE
CALI
NEIVA
COLOMBIA
VENEZUELA
GEORGETOWN
GUYANA
PARAMARIBO
GUIANA (Fr.)
CAYENNE
SURINAM
ESMERALDAS
IBARRA
QUITO
MANTA
AMBATO
ECUADOR
RIO BAMBA
GUAYAQUIL
CUENCA
LOJA
IQUITOS
MACAPA
MANAUS
BELEM
PARNAIBA
SAO LUIZ
TERESINA
FORTALEZA
NATAL
PIURA
CHICLAYO
TRUJILLO
HUARAS
CERRO DE PASCO
CALLAO
LIMA
ICA
PERU
PORTO VELHO
RIO BRANCO
BRAZIL
RECIFE
MACEIO
ARACAJÚ
SALVADOR (BAHIA)
HUANCAYO
MALDONADO
CUZCO
BOLIVIA
CUIABÁ
BRASILIA
PUNO
LA PAZ
AREQUIPA
COCHABAMBA
GOIANIA
TACNA
ORURO
SANTA CRUZ
UBERLANDIA
UBERABA
SUCRE
BELO HORIZONTE
CHILE
PARAGUAY
CAMPINAS
LA QUIACA
TAUBATE
NITEROI
SAO PAULO
RIO DE JANEIRO
ANTOFAGASTA
ASUNCION
SANTOS
SALTA
TROPIC OF CAPRICORN
TUCUMAN
FORMOSA
CURITIBA
ENCARNACION
SANTIAGO DEL ESTERO
RESISTENCIA
CORIENTES
POSADAS
FLORIANOPOLIS
CATAMARCA
SANTO TOME
ARGENTINA
SANTA MARIA
PORTO ALEGRE
S. JUAN
CORDOBA
CONCORDIA
SALTO
MENDOZA
TACUAREMBO
VALPARAISO
SAN LUIS
SANTA FE
URUGUAY
MELO
SANTIAGO
ROSARIO
COLONIA
BUENOS AIRES
MONTEVIDEO
TALCA
SAN RAFAEL
MERCEDES
LA PLATA
AZUL
CONCEPCION
SANTA ROSA
LOS ANGELES
MAR DEL PLATA
NEUQUEN
TEMUCO
BAHIA BLANCA
NECOCHEA
VALDIVIA
SAN CARLOS DE BARILOCHE
PUERTO MONTT
ESQUEL
C. RIVADAVIA
RIO GALLEGOS
STANLEY
PUNTA ARENAS
USHUAIA
Falklands Islands
75°
60°
45°
30°
15°
0°
90°

GOVERNMENT OWNED COMMERCIAL STATIONS

ADMINISTRACION GENERAL DE EMISORAS COMERCIALES DE RADIO Y TELEVISION
ADDR: Cerrito 941, Buenos Aires. **Te:** 42-0411.
Short Waves: Location: Buenos Aires.

	Call	kHz	m	kW	Name	h. of tr.
1)	LRS2	5985	50.13	1.5	R. Splendid:	10.30–02.30
2)	LRY1	6090	49.26	40	R. Belgrano:	16.00–08.00
3)	LRX1	6120	49.02	10	R. El Mundo:	09.00–16.00
						22.00–04.00
3)	LRX2	9710	30.90	7.5	R. El Mundo:	22.00–04.00
1)	LRS1	9740	30.79	2	R. Splendid:	10.30–02.30
3)	LRX	11755	25.52	7.5	R. El Mundo:	16.00–22.00
2)	LRY2	11780	25.47	7.5	R. Belgrano:	16.00–23.00
1)	LRS	11880	25.25	1	R. Splendid:	10.30–02.30
3)	LRU	15290	19.62	5	R. El Mundo:	09.00–22.00

PRIVATELY OWNED COMMERCIAL STATIONS

ASOCIACION RADIODIFUSORAS PRIVADAS ARGENTINAS (A.R.P.A.)
ADDR: Cangallo 1561, Buenos Aires. **Te:** 354412. **L.P:** Dir: F. P. Cachau.
Medium Waves: ° = Short Wave. St. 1), 2) & 3) Gov. owned.

	Call	kHz	kW		Call	kHz	kW
4)	LV1	560	10/3	3)	LR1	°1070	100
5)	LT15	560	5/3	36)	LU16	1080	5
6)	LWI	580	10/5	37)	LV5	1090	25/5
7)	LU20	580	5	38)	LR2	1110	20/5
8)	LV12	590	25/5	39)	LU5	1130	20/5
9)	LS4	590	10/5	40)	LV4	1140	25
10)	LU8	910	25	41)	LV11	1130	5
11)	LV14	620	5/1.5	42)	LT5	1150	25/5
12)	LS5	630	20/4	43)	LU6	1150	25/5
13)	LU4	630	25/10	44)	LT3	1160	10/5
14)	LV15	780	5	45)	LR9	1190	5
15)	LU9	670	25/5	46)	LW3	1190	1.5
16)	LT7	670	5/1	47)	LU3	1200	25/5
17)	LU12	680	25/5	48)	LT6	1200	5
18)	LV6	680	25/5	49)	LV3	1210	25/5
19)	LV10	720	20/5	50)	LT2	1230	15/5
20)	LW7	730	5/1	51)	LU10	1240	10/5
21)	LV8	780	10/5	52)	LU7	1240	10
22)	LR6	790	50	53)	LV13	1250	5
23)	LU2	820	25/5	54)	LT9	1260	5/2.5
24)	LT16	820	1.5	55)	LT11	1300	1.5
25)	LT8	830	10/5	56)	LU13	1300	10/1.5
26)	LV9	830	25/5	57)	LT14	1330	10/2.5
27)	LT12	840	2.5	58)	LU19	1340	2
28)	LV7	900	10/5	59)	LU11	1340	0.25
1)	LR4	°910	50	60)	LS6	1350	10
2)	LR3	°950	90	61)	LT23	1430	0.25
29)	LW8	960	25/5	62)	LU17	1430	0.25
30)	LV2	970	25/5	63)	LU15	1440	0.25
31)	LR5	990	25	64)	LW2	1460	0.25
32)	LT4	1010	25/3	65)	LT13	1470	0.25
33)	LV16	1010	10/3	66)	LW4	1510	0.25
34)	LU21	1020	5	67)	LU18	1510	1
35)	LS10	1030	25/5	68)	LT18	1550	0.25

Reported: 10) on 590kHz, 14) on 640kHz, 40) on 840kHz, 52) on 1120kHz.

Frequency changes to take effect from February 1st 1969: 6) 1360kHz — 8) 1030kHz — 16) 900kHz — 17) 1110kHz — 20) 690kHz — 21) 1090 kHz — 23) 840kHz — 24) 960kHz — 26) 1160kHz — 29) 1110kHz — 1) °990kHz — 30) 830kHz — 32) 910kHz — 33) 1250kHz — 35) 680kHz — 38) 1390kHz — 41) 1330kHz — 41a) 1170kHz — 42) 640 kHz — 43) 1080kHz — 47) 1350kHz — 51) 1310kHz — 52) 1240kHz — 53) 580kHz — 56) 1120kHz — 58) 690kHz — 59) 1400kHz — 61) 1550 kHz — 62) 1390kHz 5kW — 63) 620kHz 5kW — 64) 1010kHz — 66) 540kHz — 67) 1410kHz — 68) 1210kHz.

Short Waves:
1) Uruguay 1237, Buenos Aires. **Te:** 42-9602. **L.P:** Dir. Tec: J. Núñez. **D.Prgr:** 10.00–05.00. **N:** 10.00 and every h on the h from 11.00. **ANN:** "LR4, R. Splendid de Buenos Aires, con sus ondas cortas, LRS, LRS1 y LRS2 de la Red Argentina de Emisoras Splendid". **INT-SIG:** 4 notes on electronic gong. **V.** by QSL-card.
2) Ayacucho 2075, Buenos Aires. **Te:** 42-9661. **D.Prgr:** 09.45–06.00. **N:** 10.00, 11.00, 15.00, 16.00, 20.00, 22.00, 01.00, 03.00, 04.00 (6090 and 11780kHz partly relaying R. Nacional). **ANN:** " Transmite LR3 R. Belgrano de Buenos Aires, con sus ondas cortas LRY1, LRY2 y su circuito de emisoras del Interior". **INT-SIG:** 4 notes on vibraphone. **V.** by QSL-card.
3) Maipú 555, Buenos Aires. **Te:** 012-1084. **Cable:** "Radiomundo". **L.P:** Dir. Gen: F. Ferreti. Dir. Tec: Ch. N. Cutler. **D.Prgr:** 10.00–05.00. **ANN:** "LR1, R. El Mundo de Buenos Aires y su Red Azul y Blanca de Emisoras Argentina". **INT-SIG:** Gong. **V.** by QSL-card.

Medium Waves: D.Prgr's 11.00–05.00 exc. where indicated.
4) **R. Colón,** Mendoza 369, San Juan. **L.P:** Dir: A. J. Graffigna. **D.Prgr:** 10.30–05.30. **V.** by letter. Recordings accepted.
5) **R. Concordia,** La Rioja 622, Concordia, Entre Ríos. **D.Prgr:** 10.30–06.00.
6) **R. Univ. de Córdoba,** Rivera Indarte 170, Córdoba. **D.Prgr:** 10.00–05.30.
7) **R. Chubut,** Italia 47, Trelew, Chubut. **L.P:** Dir: T. Boric. **D.Prgr:** 10.30–04.05. **V.** by letter. Recordings accepted.
8) **R. Independencia,** Rivadavia 118, Tucumán. **L.P:** Dir: P. C. Ramos. **D.Prgr:** 11.00–06.00.
9) **R. Porteña,** Azcuénaga 1625, Buenos Aires. **D.Prgr:** 24 h.
10) **R. Bariloche,** San Carlos de Bariloche, Río Negro. **L.P:** Dir: A. Genzano. **D.Prgr:** 12.00–04.30.
11) **R. Joaquín V. Gonzáles,** Mitre 743, La Rioja. **L.P:** Dir: J. J. Moreno. **D.Prgr:** 11.00–04.30.
12) **R. Rivadavia,** Arenales 2467, Buenos Aires. **D.Prgr:** 24 h.
13) **R. Patagonia Argentina,** Moreno 765, Comodoro Rivadavia. **L.P:** Dir: O. Caridad. **D.Prgr:** 10.00–06.00.
14) **R. Villa Mercedes,** Balcarce 470, Villa Mercedes, San Luis. **L.P:** L. Urtubey. **D.Prgr:** 10.55–04.00.
15) **R. Mar del Plata,** Córdoba 1861, Mar del Plata. **D.Prgr:** 24 h.
16) **R. Provincia de Corrientes,** Rioja 743, Corrientes. **L.P:** Dir: J. F. Gómez. **D.Prgr:** 10.30–04.30.
17) **R. Río Gallegos,** Av. San Martín 461, Río Gallegos, Santa Cruz. **L.P:** Dir: A. R. Segovia. **D.Prgr:** 13.00–04.00.
18) **R. Nihuil,** Rioja 1239, Mendoza. **L.P:** Dir: G. F. Sánchez C. **D.Prgr:** 10.00–06.00.
19) **R. de Cuyo,** Av. San Martín y Gral Paz, Mendoza. **D.Prgr:** 24 h.
20) **R. Catamarca,** Rivadavia 741, Catamarca. **L.P:** Dir: E. N. Morcos. **D.Prgr:** 10.55–05.00.
21) **R. Libertador,** Rioja 1484, Mendoza. **L.P:** Dir: A. Benites. **D.Prgr:** 10.00–05.00 (Sat/Sun 07.00).
22) **R. Mitre,** Maipú 555, Buenos Aires. **L.P:** Dir: F. Ferretti. **D.Prgr:** 24 h.
23) **R. Bahía Blanca,** Sarmiento 54, Bahía Blanca. **L.P:** Dir: D. J. de Massot. **D.Prgr:** 24 h. **V.** by letter.
24) **R. Splendid,** Urquiza 585, Presidencia Roque Sáenz Peña, Chaco. **L.P:** Dir: M. Alberti. **D.Prgr:** 10.00–04.30.
25) **R. Rosario,** Córdoba 1825, Rosario. **L.P:** Dir: A. Vitola. **D.Prgr:** 09.00–06.00.
26) **R. Güemes,** Deán Funes 28, Salta. **L.P:** Dir: E. Vidal. **D.Prgr:** 10.30–07.00.
27) **R. General Madariaga,** Av. General San Martín 2081, Paso de los Libres, Corrientes. **L.P:** Dir: R. Vertiz. **D.Prgr:** 11.00–04.00.
28) **R. Tucumán,** Mendoza 273, Tucumán. **L.P:** Dir: E. Valy. **D.Prgr:** 10.00–06.00.
29) **R. Jujuy,** Ramirez de Velazco 253, Jujuy. **D.Prgr:** 10.30–04.30.
30) **R. La Voz de la Libertad,** Maipú 166, Córdoba. **L.P:** Dir: Samuel Bretcn. **D.Prgr:** 10.00–04.00.
31) **R. Excelsior,** Rivadavia 827, Buenos Aires. **L.P:** Dir: M. de Laferrere. **D.Prgr:** 10.00–06.00.
32) **R. Misiones,** Posadas, Misiones. **D.Prgr:** 24 h. **V.** by letter. Recordings accepted.
33) **R. Ranquel,** Constitución 399, Río Cuarto, Córdoba. **D.Prgr:** 10.30–04.30.
34) **R. Golfo San Jorge,** Don Bosco y Ruta 3, Caleta Olivia, Santa Cruz. **L.P:** Dir: H. Ferro. **D.Prgr:** 11.00–04.00. **V.** by letter. Recordings accepted.
35) **R. Libertad,** Florida 165, Buenos Aires. **D.Prgr:** 24 h.
36) **R. Río Negro,** Reconquista 135, Villa Regina, Río Negro. **L.P:** Dir: D. López. **D.Prgr:** 12.00–04.00.
37) **R. Sarmiento,** Mendoza 466, San Juan. **L.P:** Dir: E. P. Sarmiento. **D.Prgr:** 10.00–07.00 (Sun 10.30–04.30).
38) **R. Argentina,** Santa Fé 2043, Buenos Aires. **D.Prgr:** 11.00–06.00.
39) **R. Splendid,** Juan B. Alberdi 189, Neuquén. **L.P:** Dir: E. Duran C. **D.Prgr:** 11.00–04.30.
40) **R. San Rafael,** Irigoyen y Francia, San Rafael, Mendoza. **L.P:** Dir: C. G. Balmaceda. **D.Prgr:** 10.30–05.00.
41) **R. del Norte,** Libertad 251, Santiago del Estero. **L.P:** Dir: J. Binotti. **D.Prgr:** 11.00–04.00.
42) **R. Chaco,** 9 de Julio 1855, Resistencia, Chaco. **L.P:** Dir: O. Benitez. **D.Prgr:** 10.00–05.00.
43) **R. Atlántica,** San Martín 2583, Mar del Plata. **L.P:** Dir: M. R. Iglesias. **D.Prgr:** 10.00–07.00. **V.** by letter.
44) **R. Cerealista,** Balcarce 840, Rosario. **L.P:** Dir: A. Ciampoli. **D.Prgr:** 10.00–05.00 (Sat/Sun 06.00).
45) **R. Antártida,** Maipú 555, Buenos Aires. **L.P:** Dir: F. Ferretti. **D.Prgr:** 11.00–04.00.
46) **R. Splendid Tucumán,** Mendoza 225, Tucumán. **L.P:** Dir: E. Valey. **D.Prgr:** 10.55–06.00.
47) **R. del Sur,** Lamadrid 116, Bahía Blanca. **L.P:** Dir: R. Mazeris. **D.Prgr:** 10.00–05.00. **V.** by letter. Recordings accepted.
48) **R. Genaro Berón de Astrada,** Mariano I. Lloza 231, Goya, Corrientes. **L.P:** Dir: D. E. Mariño. **D.Prgr:** 10.30–04.00.
49) **R. Córdoba,** San Martín 60, Córdoba. **L.P:** Dir: L. Fernando F. **D.Prgr:** 10.00–05.00. **V.** by letter. Recordings accepted.
50) **R. Splendid Rosario,** Santa Fé 1388, Rosario. **L.P:** Dir: J. Migno. **D.Prgr:** 10.00–05.00.
51) **R. Azul,** Av. Mitre 819, Azul. **L.P:** Dir: José Borrero. **V.** by letter.
52) **R. General San Martín,** Alsina 247, Bahía Blanca. **L.P:** Dir: R. Sande. **D.Prgr:** 10.00–05.00.
53) **R. Granaderos Puntanos de San Luis,** Rivadavia 563, San Luis **D.Prgr:** 10.00–04.30.
54) **R. Santa Fé,** San Martín 2685, Santa Fé. **L.P:** Dir: R. Savio **D.Prgr:** 24 h.
55) **R. Splendid,** Onésimo Leguizamón 269, Concepción del Uruguay Entre Ríos. **L.P:** Dir: A. Moret. **D.Prgr:** 10.30–04.00.
56) **R. Necochea,** Gran Galería Central, Necochea. **L.P:** Dir: M. R. G. de Rico. **D.Prgr:** 10.30–05.00.
57) **R. General Urquiza,** Rivadavia 126, Paraná, Entre Ríos. **L.P:** Dir: C. M. Wildener Fox. **D.Prgr:** 10.00–04.00.
58) **R. La Voz del Comahue,** Casilla 14. **L.P:** Dir: R. Rost. **D.Prgr:** 10.00–04.30.
59) **Radioemisora del Oeste,** Cas. 36, Trenque Lauquen. **L.P:** Dir: R. Saez. **D.Prgr:** 10.30–03.30.
60) **R. América,** J. A. Pacheco de Melo 2178, Buenos Aires. **L.P:** Dir: M. Campollops.
61) **R. San Jenaro Norte,** San Martín y Blvd. Inglaterra, San Jenaro Norte, Santa Fé. **D.Prgr:** 11.00–03.15.
62) **R. Golfo Nuevo,** B. Mitre y Estivariz, Puerto Madryn, Chubut. **L.P:** Dir: E. J. Cassani. **D.Prgr:** 11.00–04.00.

63) **R. Viedma,** Rivadavia 336, Viedma, Río Negro. **L.P:** Dir: O. Liccardi. **D.Prgr:** 12.00–04.00. **F.PL:** 5kW.
64) **Radioemisora Tartagal,** Gorriti 524, Tartagal, Salta. **L.P:** Dir: N. S. Martínez Gil. **D.Prgr:** 12.00–04.00. **V.** by letter. Recordings accepted.
65) **R. Oberá,** Larrea 886, Oberá, Misiones. **L.P:** Dir: H. Amable. **D.Prgr:** 10.00–04.00.
66) **R. Orán,** 9 de Julio 163, Orán, Salta. **L.P:** Dir: G. Bernad. **D.Prgr:** 12.00–04.00. **V.** by letter. Recordings accepted.
67) **R. El Valle,** 25 de Mayo 880, General Roca, Río Negro. **L.P:** Dir: H. Cozzi. **D.Prgr:** 10.00–05.00. **V.** by letter. Recordings accepted.
68) **R. Eldorado,** Casilla 218, Eldorado, Misiones. **L.P:** Dir: M. A. Murad. **D.Prgr:** 10.00–02.00. **V.** by letter. Recordings accepted.

BOLIVIA

L.T: GMT − 4 h **Pr.L:** Spanish.

DIRECCION GENERAL DE TELECOMUNICACIONES
Departmento de Radiodifusion, La Paz — L.P: Dir. Gen: H. Valdivia R.
ASOCIACION BOLIVIANA DE RADIODIFUSORAS,
(ASBORA) — ADDR: Casilla 2431, La Paz. **Te:** 25883. **L.P:** Pres: R. Salmón. Vice Pres: J. Blanco G. Secr. Gen: L. Suarez B. Permanent Secr: E. Costas S.
STATIONS: All st's comm. exc. 12), 18), 22) (Rel), 32) (Gov.).
Short Waves: * = inactive.

	Call	kHz	m	kW	Name and h of tr.
	CP103	3350	89.55	1	R. 27 de Diciembre, VillaMontes
2)	CP85	3370	89.02	0.5	R. Universidad, Tarija
3)	CP89	3390	88.50	0.25	R. Santa Ana
4)	CP62	4760	63.03	5	Radioem. Bolivia, Oruro: 10.00–04.00
5)	CP84	4775	62.84	1	R. Los Andes, Tarija: 10.00–22.00
6)	CP74	4785	62.70	1	R. Indoamérica, Potosi: 11.30–03.00
7)	CP73	4795	62.57	1	R. Nueva América: La Paz: 10.55–18.30, 22.00–05.00
8)	CP114	4805	62.43	0.25	R. San Miguel, Riberalta
9)	CP56	4815	62.31	0.1	R. Onkoi, Concepcion
10)	CP70	4825	62.18	1	R. Grigota, Sta. Cruz: 10.00–03.00
11)	CP66	4855	61.79	1	R. Centenario, Sta. Cruz.
12)	CP59	4855	61.79	1	R. Cobija, Cobija: 10.00–03.00
13)	CP77	4885	61.45	1	R. Sararenda, Camiri: 11.00–03.00
14)	CP88	4915	61.03	1	R. Amboro, Sta. Cruz
15)	CP110	4935	60.80	1	R. Norte, Montero
16)	CP105	4955	60.54	0.5	R. Ibaré, Trinidad
17)	CP90	4965	60.42	1.5	R. Juan XXIII, San Ignacio de Velasco: 10.00–13.00, 15.00–17.00, 23.00–03.00
18)	CP75	4985	60.18	9	La Cruz del Sur, La Paz: 10.00–16.00, 22.00–03.00 (Sun 10.00–03.00)
19)	CP48	5015	59.82	1	R. Universo, La Paz
20)	CP38	5045	59.46	5	R. Altiplano, La Paz: 12.00–23.00
21)	CP87	5055	59.35	5	R. San Rafael, Cochabamba: 10.00–13.00, 22.00–01.00
22)	CP60	5955	50.38	1	R. Pio XII, Llallagua: 08.30–13.30, 14.30–19.00, 20.45–04.00
23)	CP44	5975	50.21	1	R. Nacional , Cochabamba: 12.00–03.00
24)	CP41	5995	50.04	1	R. Loyola, Sucre: 11.00–18.00, 21.00–03.00
25)	CP58	6005	49.96	10	R. Progreso, La Paz: 08.30–05.00
26)	CP18	6055	49.55	1	R. El Condor, Oruro: 12.00–18.00, 22.00–03.00
27)	CP15	6125	48.98	1	R. El Condor, La Paz: 12.00–03.00
28)	CP30	6135	48.94	1	R.Sta.Cruz,Sta.Cruz:15.00–18.00, 22.00–03.00
29)	CP81	6140	48.86	0.5	R. Luis de Fuentes, Tarija: 11.30–23.00, 00.30–03.30
30)	CP12	6155	48.74	1	R. Fides, La Paz: 10.30–19.00, 22.00–02.30
31)	CP9	6185	48.50	1	R. Amauta, La Paz: 11.00–13.00, 00.00–03.00
19)	CP71	6195	48.43	1	R. Universo, La Paz
19)	CP64	9505	31.56	1	R. Universo, La Paz
32)	CP6	9555	31.40	10	Emisora del Estado, La Paz: 10.00–13.00, 16.00–22.00
33)	CP21	9715	30.88	1	R. La Plata, Sucre: 12.00–18.00, 22.00–03.00
32)	CP7	*11765	25.50	10	Emisora del Estado, La Paz

Medium Waves: ° = also on Short Wave.

	Call	kHz	kW		Call	kHz	kW
34)	CP63	620	1	32)	CP4	°1020	20
35)	CP34	680	5	25)	CP57	°1090	10
18)	CP27	°730	10	11)	CP25	°1160	0.25
19)	CP46	°780	0.25	42)	CP78	°1160	0.25
36)	CP108	780	0.25	43)	CP19	1160	0.5
37)	CP52	780	0.25	44)	CP98	1160	0.25
20)	CP35	°820	1	45)	CP67	1200	1
27)	CP20	°900	0.25	3)	CP37	°1200	0.25
28)	CP28	900	0.25	33)	CP54	°1250	0.25
39)	CP79	900	0.25	12)	CP47	°1250	0.25
40)	CP112	930	0.25	13)	CP17	°1250	0.25
31)	CP11	°930	0.25	5)	CP16	°1250	0.25
28)	CP32	°960	0.25	6)	CP53	°1250	0.25
41)	CP93	960	0.25	23)	CP69	°1250	0.25
46)	CP14	1250	1	55)	CP49	1420	1
47)	CP65	1250	0.25	56)	CP104	1440	0.5
16)	CP100	°1250	0.25	57)	CP107	1440	0.25
14)	CP26	°1250	0.25	4)	CP61	°1450	1
48)	CP55	1270	0.25	7)	CP8	°1470	1
24)	CP51	°1300	1	58)	CP1	1510	0.25
30)	CP29	°1300	0.25	59)	CP79	1510	0.25
21)	CP68	°1300	1	60)	CP80	1510	0.25
49)	CP45	1330	0.25	61)	CP79	1510	0.25
50)	CP36	1330	0.25	1)	CP102	°1510	0.25
51)	CP106	1330	0.25	62)	CP101	1510	0.25
52)	CP82	1350	1	63)	CP111	1530	0.25
10)	CP24	°1340	0.25	22)	CP50	°1550	0.5
53)	CP3	1390	1	15)	CP83	°1550	0.5
54)	CP113	1390	0.25				

Short Waves:
1) Correo Central, Villa Montes.
2) Tarija.
3) Correo Central, Santa Ana. **L.P:** Dir: J. Rojas S.
4) Cas. 525, Oruro. **Te:** 51944. **L.P:** Dir: R. P. Santiago G. Dir. Tec: R. Von Borries. Dir. Prgrs: R. Santander R. **D.Prgr: N:** 11.30, 13.00, 14.00, 15.00, 16.20, 18.00, 20.00, 21.00, 22.00, 23.20, 02.00, 03.00. **Ann:** "Radioemisoras Bolivia, su nueva amiga, puntual servicial y siempre jovial....CP61 y CP62, 4760kHz, 60 metros onda corta, 1450kHz onda larga y 158MHz FM en Oruro". **V.** by letter. Recordings accepted.
5) 15 de Abril 828, Tarija. **L.P:** Dir: J. Rollano M.
6) Ca. Mattos 35, Potosi.
7) Cas. 2431, La Paz. **Te:** 2-5883. **L.P:** Dir. Gen: R. Salmon. **D.Prgr: N:** 12.00, 17.00, 24.00.
8) Riberalta.
9) Correo Central, Concepción, Santa Cruz.
10) Cas 203, Sta. Cruz. **Te:** 309. **Cable:** Grigota. **L.P:** Dir. Gen: D. Arteaga F. Dir. Tec: H. Mendivill. **D.Prgr: N:** 11.35, 17.00, 01.30. **Ann:** "CP24 y CP70 Estaciones Radiofonicas Grigota, La Voz del Oriente Boliviano". **V.** by letter. Recordings accepted.
11) Argamosa 2, Sta. Cruz.
12) Correo Central, Cobija. **L.P:** Dir: J. Landivar.
13) Correo Central, Soc. Ltda, Sararenda, Camiri. **L.P:** Dir. Gen: H. Eyaguirre S. **D.Prgr: N:** 16.10, 01.00. **V.** by letter.
14) Libertad 348, Santa Cruz.
15) Correo Central, Montero, Sta. Cruz.
16) Correo Central, Trinidad.
17) San Ignacio de Velasco, Sta. Cruz. **L.P:** Dir. Gen: C. J. Rosenhamer. St. Mgr: P. Bayer K. Dir. Tec: E. Isele. Dir. Prgrs: H. Marcus. **D.Prgr: N:** 10.30, 16.00, 00.30. **Ann:** "CP90 Radioemisora Juan XXIII de San Ignacio de Velasco Departamento de Sta. Cruz, Bolivia". **V.** by letter. Rp.
18) Cajón 1408, La Paz. **Te:** 25578. **L.P:** Dir. Adm: H. C. Parent. Dir. Tec: F. Fortes. **D.Prgr:** W 10.00–16.00, 22.00–03.00. Sun 10.00–03.00. **N:** 12.00, 13.00 (VOA), 17.00, 00.00, 02.15 (BBC). **Aymara** 10.00–10.45; **Quechua** 10.45–11.30; **German** 11.30–11.35; **English** 02.30–03.00; **DX-Prgr** (English) Sun 02.45. **Classical Music:** 14.00, 01.00. **Ann:** E "This is CP27, the Southern Cross Radio". Sp: "R. La Cruz del Sur, Luz que señala el camino de la vida". **Int-Sig:** Opens with "God of our Fathers", closes with "The Heavens are telling". **V.** by QSL-card. Rp. **Pub:** Prgr schedule free. **FM:** 95MHz 0.25kW.
19) Casilla 232, La Paz. **Te:** 2-2995. **Cable:** Dico. **L.P:** Dir. Gen: J. Blanco G. Dir. Tec: A. Berthin M. **V.** by letter.
20) Av. Camacho 1458, La Paz. **Te:** 10906.
21) Cas. 546, Cochabamba. **Te:** 4495. **L.P:** Dir: Rev. L. J. Sommer. Dir. Tec: G. Resch. Dir. of Prgr: M. Godoy. **N:** 12.30, 23.00. **N. in Quechua:** 10.35. **Ann:** "Desde Cochabamba, Bolivia, transmite R. San Rafael". **V.** by QSL-card. Recordings accepted.
22) Correo Central, Llallagua. **L.P:** Dir. Gen: Rev. Padre G. Dicaire O.M.I. Dir. Tec: V. Fernández C. Dir. Prgr: M. Otero. **D.Prgr: N:** 11.20, 13.00, 15.00, 16.20, 18.00, 23.20. **V.** by letter. Recordings accepted.
23) Cas. 526, Cochabamba. **Te:** 5914. **L.P:** Dir. Gen: A. Lopéz. Dir: J. Cruz A.
24) Cas. 155, Sucre. **Te:** 1677. **Cable:** Radioloyola. **L.P:** Dir. Gen: S. Martinez. Dir. Prgr's: T. A. Duran S. Dir. Tec: J. Maria L. **D.Prgr:** 11.00–03.00 (mw). **N:** 12.00, 16.00, 22.00, 02.00 and every half h. **Ann:** "Radiomisoras Loyola, Voluntad Católica de Bolivia". **V.** by letter. Recordings accepted.
25) Casilla 110, La Paz. **Te:** 28440. **L.P:** Dir. Gen: J. Hochmann S. Gen. Mgr: J. Romecin G. Dir. Prgrs: R. Balderas L. **D.Prgr: N:** on the h. **V.** by letter. Recordings accepted.
26) La Plata 1139, Oruro.
27) Correo Central, La Paz. **Te:** 2-3070. **D.Prgr: N:** 11.30, 16.30, 23.30, 02.30. **Ann:** "Estas son CP15 y CP20 estaciones de ondas cortas y larga de R. El Condor, La Voz Ferrovario, desde La Paz, Bolivia". **V.** by letter.
28) Cas. 672, Sta. Cruz. **Te:** 31. **L.P:** Dir: E. Peña S. **V.** by letter.
29) Cas. 125, Tarija.
30) Cas. 283, La Paz. **Te:** 24422. **L.P:** Dir. Gen: J. Gramunt. Dir. Tec: J. M. Lop. **D.Prgr: N:** 11.30, 12.45, 01.00. **Ann:** "R. Fides de la Paz, la Voz Católica de Bolivia".
31) Cas. 586. La Paz. **L.P:** Dir. Gen: L. S. Perez. Dir. Tec: J. J. Saavedra M. **D.Prgr: N:** 11.15, 16.45, 00.30.
32) Ayacucho 467, La Paz. **Te:** 29686. **L.P:** Dir. Gen: M. Ortiz O. Dir. Tec: F. Ballivián. **D.Prgr:** 10.00–04.00. **N:** 11.00, 17.00, 01.30. **Ann:** "Desde La Paz, República de Bolivia, transmite CP4 y CP5. Emisora del Estado, La Voz de Bolivia". **V.** by letter & QSL-card. Recordings accepted. **F.Pl:** 4 relay st's on 1020kHz.
33) Plaza 25 de Mayo 41, Sucre, Chuquisaca. **Te:** 1231. **L.P:** Dir: G. Donosa T.

Medium Waves:
34) **R. San Gabriel,** Cas. 4792, La Paz. **D. Prgr:** 10.00-13.00, 16.00-

18.00, 20.00-02.00. V. by letter or QSL-card.
35) **R. Mendez**, Av. 6 Agosto 2008, La Paz.
36) **R. Independencia**, Correo Central Quillacollo.
37) **R. Potosi**, Cas. 150, Potosi.
38) **R. Cochabamba**, Cas. 886, Cochabamba.
39) **La Voz Nacional**, Correo Central, Tarija.
40) **R. Frontera**, Correo Central, Yacuiba.
41) **R. Kollasuyo**, Correo Central, Potosi.
42) **R. Tunari**, Cochabamba. **L.P:** Dir: R. Montecinos L.
43) **R. Aspiazu**, Indaburo 971, La Paz.
44) **R. Nuevo Mundo**, Correo Central, Sucre.
45) **R. Splendid**, Av. Arce 2164, La Paz. **L.P:** Dir: G. Velasco A.
46) **Emisoras "Unidas Ltda"**, Av. Camacho 1324, La Paz.
47) **R. Oruro**, Correo Central, Oruro. **D. Prgr:** 14.00-19.00, 21.00-03.00.
48) **R. Universidad**, Universidad Técnica, Oruro.
49) **R. Cultura**, Cas. 886, Cochabamba.
50) **R. Mercurio**, Cas. 496, Oruro.
51) **R. Trinidad**, Ca. 18de Noviembre, Trinidad.
52) **R. Electra**, Correo Central, Potosi.
53) **R. Nacional de Bolivia**, Apt. 2532, La Paz. **Te:** 29967. **L.P:** Dir. E. Costas. **D. Prgr:** 08.00-04.00. **V.** by letter. Recordings accepted.
54) **R. Villazon**, Correo Central, Villazon.
55) **R. Centro**, Santivanez 3420, Cochabamba.
56) **R. Oriente**, Correo Central, Camiri, Sta. Cruz.
57) **R. Yaguari**, Correo Central, Vallegrande, Sta. Cruz.
58) **R. Chuquisaca**, Indaburo 1268, La Paz.
59) **R. La Voz Nacional**, Correo Central, Tarija.
60) **R. Litoral**, Cas. 1009, Cochabamba.
61) **La Voz Nacional**, Correo Central, Tarija.
62) **R. Suipacha**, Correo Central, Villazon.
63) **R. Ballivian**, Correo Central, San Borja.

BRAZIL

L.T: Eastern (Coastal): GMT — 3 h (Su: GMT — 2 h). Western: GMT — 4 h (Su: GMT — 3 h). Acre: GMT — 5 h (Su: GMT — 4 h) — **Pr.L:** Portuguese.

CONSELHO NACIONAL DE TELECOMUNIÇACÕES
(National Council of Telecommunications), Rua Miguel Coutu 105, Rio de Janeiro.

ASSOCIA, ÇAO BRASILEIRA DE EMISSORAS DE RADIO E TELEVISÃO
Addr: Av. Rio Branco 4, salas 901-903, Rio de Janeiro, G.B.
Te: 43-87-26. **Cable:** Albertrio — **L.P:** Pres: Dr. J. de Medeiros Calmon. Exec. Dir: R. Tavares.
St's belonging to ABERT: 1), 6), 7), 8), 10), 11), 17), 18), 21), 22), 23), 25), 31), 34), 35), 36), 38), 39), 42), 43), 45), 47), 48), 51), 53), 54), 56), 57), 58), 59), 60), 61), 63), 65), 66), 67), 70), 71), 72), 74), 75), 76), 78), 79), 80), 81), 83), 84), 85), 87), 88), 89), 91), 96), 98), 99), 102), 103), 104), 109), 110), 111), 112), 114), 116), 118), 126), 127), 128), 130), 132), 133), 134) + 236 m.w. st's.

DIARIOS EMISSORAS ASSOCIADOS
Internat. Relations Dept, Rua S. Cabral 103, Rio de Janeiro, G.B. **Te:** 22-0182. **Cable:** Silapress or Meridiano. **Telex:** 031-380 — **L.P:** Dir. Gen: Dr. João de Medeiros Calmon. Exec. Dir: Dr. Jose de Almeida Castro. Head, Internat. Division: Miss Maria Porto.
St's belonging to Diarios Associados: 23), 34), 36), 63), 70), 79), 96), 102), 110), 111), 112), 116), 117), 130), 132), 133), 163), 204), 209), 240), 281), 293), 343).
All prgr. details are subject to alterations without notice.
NB: Att st's carry "A Voz do Brazil" at 22.00.
STATIONS: Short Waves: * =inactive.

Call	kHz	m	kW	Name & h. of tr.
1) ZYV30	2340	128.4	0.5	R. Dif. Brasileira, Überlandia: 09.00-02.00
2) ZYB	2350	127.6	1	R. Dif. Itacoatiara: 10.00-01.00
3)	2360	127.1	0.25	R. Dif. Parintins: 10.00-01.00
4)	2360	127.1	1	R. Cultura do Nordeste, Caruaru: 10.00-24.00
5)	*2370	126.1	0.25	R. Cl. Fluminense, Sao João de Meriti
6) ZYE78	2380	126.0	0.25	R. Educadora de Limeira: 08.00-03.00
7) ZYV71	2390	125.5	0.5	R. Por Um Mundo Melhor, G. Valadares: 09.00-03.00
8)	*2390	125.5	0.5	R. Cultura de Monte Alto, Jaboticabal
9)	2400	125.0	0.1	R. Mossoró: 09.00-03.00
10)	2400	125.0	0.5	R. Dif. de Amparo: 08.30-24.00
10a)	2400	125.0	1	R. Educadora São José, Macapá: 08.45-02.00
11) ZYW32	2420	124.0	0.5	R. Carajá, Anápolis: 09.00-01.00
12)	2410	124.1	1	R. Sirena, Leopoldina: 11.00-01.00
13)	2410	124.1	1	R. Emissora Educacão Rural, Santarem: 09.00-03.00
14)	2420	124.0	0.5	R. São Carlos: 09.00-04.00
15)	2420	124.0	0.25	R. Carolina: 11.00-24.00
16)	*2430	123.5	0.25	Dif. Rio Bonito
17) ZYR231	2450	122.4	0.5	R. Cultura de Araçatuba: 09.00-12.00, 20.00-04.00
18) ZYR99	2470	121.5	0.5	R. Cacique de Sorocaba: 08.00-04.00
19) ZYR	2480	121.0	1	R. Bragança, Bragança Paulista: 09.00-02.30
20) ZYL23	3245	92.45	1	R. Educ. Palmares de Alagaus, Maceio
21) ZYN62	3255	92.16	0.5	R. Cl. de Marilia: 00.00-02.30
22) ZYH35	3255	92.16	1	R. Assunção Fortaleza: 14.00-17.00, 23.00-03.00
22a)ZYR92	3265	91.87	4	R. Ribeirão Preto: 08.30-02.30
23) ZYK21	3265	91.87	1	R. Tamandaré, Recife: 08.00-04.30
24) ZYR31	3275	91.60	1	Bauru R. Clube: 24 h
26)	3285	91.32	1	Emis. da Educacão Rural, Natal: 08.00-02.00
27) ZYV75	3295	91.00	1	R. Educ. de Überlandia: 09.00-03.00
28) ZYX28	3295	91.00	1	R. Educação Rural, Campo Grande: 10.00-04.00
29)	3295	91.00	1	R. Cultura de Serguipe, Aracaju
30) ZYH31	*3305	90.77	1	R. Educadora do Cairi, Crato
31) ZYV63	3315	90.50	0.25	R. Itatiaia, Belo Horizonte: 09.00-04.00
32) ZYL21	3315	90.50	1	R. Gazeta de Alagoas, Maceio: 08.55-03.00
33) ZYR220	3325	90.23	0.1	R. Dif. Guarulhos: 09.00-01.00
34) ZYJ21	3325	90.23	1	R. Borborema, Campina Grande: 08.30-03.00
35) ZYR59	3335	89.95	0.5	Vóz do Sertão, Pres. Prudente: 12.00-17.00
36) ZYE24	3335	89.95	1	R. Marajoára, Belém: 09.00-15.00
37)	*3335	89.95	1	R. Capibaribe, Recife
38)	3345	89.68	1	R. Alvorada de Londrina: 09.00-03.00
39) ZYK28	3375	88.88	1	R. Olinda Pernambuco: 08.00-06.00
40) ZYS45	3385	88.63	0.5	Dif. do Paraná, Londrina: 09.00-01.00
41)	3385	88.63	0.5	R. Cl. Teresina: 11.00-02.00
42) ZYA41	*3385	88.63	1.5	R. Eldorado, Rio
43)	3395	88.37	1	R. Tapuyo de Mossoró: 09.55-03.00
44)	3395	88.37		R. Dif. de Goiânia, Goiânia
45) ZYF23	4755	63.09	0.1	R. Dif. do Maranhão, São Luiz: 09.00-01.00
46) ZYY3	4755	63.09	1	R. Brazil, Campinas: 08.30-04.00
47) ZYN37	4765	62.96	1	R. Feira de Santana: 07.30-04.30
48) ZYH29	4775	62.84	5	R. Dragão do Mar, Fortaleza: 09.00-01.00
49) ZYR81	4775	62.84	5	R. Progresso de São Paulo: 09.00-01.00
50) ZYY20	4785	62.70	1	R. Cultura Caiari, Porto Velho: 11.00-04.30
51) ZYM8	4785	62.70	0.5	R. Ribamar, São Luiz: 11.00-02.00
52) ZYV25	*4795	62.57	1	R. Cultura de Cambüquira
53) PRI4	4795	62.57	2	R. Tabajara, João Pessoa de Paraiba: 09.00-02.00
54) ZYP27	4795	62.57	0.5	R. Copacabana
55) ZYF37	4795	62.57	1	R. Congonhas: 09.00-03.00
56) ZYS8	4805	62.43	5	R. Dif. de Amazonas, Manaus: 09.00-02.00
57) ZYP33	4815	62.31	1	R. Dif. Petrópolis: 10.00-04.00
58) ZYH27	4815	62.31	1	R. Iracema de Fortaleza: 09.00-03.00
59) ZYE7	4825	62.18	0.5	R. Educadora de Parnaiba: 09.00-12.00, 20.00-01.00
60) ZYV56	4825	62.18	1	R. Cl. de Varginha: 11.00-01.00
61) ZYV37	4835	62.05	0.5	R. Triangulo Mineiro, Uberaba: 09.30-02.30
62) ZYA1	4835	62.05	1	R. Dif. Roraima, Boa Vista: 11.00-16.00, 22.00-03.00
63) ZYU8	4845	61.92	1	R. Dif. Teresina: 11.00-04.00
64) ZYR61	4855	61.79	1	R. Dif. Taubaté: 09.00-03.00
65) PRC5	4865	61.66	2.5	R. Cl. do Pará, Belém: 09.00-10.30, 15.00-17.00, 21.00-03.00
66) ZYZ30	4875	61.54	5/1	R. Jornal do Brasil, Rio de Janeiro: 08.30-05.00
67) ZYG26	4885	61.41	1	R. Pioneira de Teresina: 07.45-03.00
68) ZYD9	4885	61.41	1	R. Acreana, Rio Branco: 12.00-02.00
69) ZYV50	4885	61.45	1	R. Cultura de Poços de Caldas: 08.00-04.00
70) PRF6	4895	61.29	5	R. Baré, Manaus: 09.00-11.00, 22.00-03.00
71) ZYN22	4895	61.28	1	R. Bahia, Salvador: 09.00-04.00
72) ZYZ20	4905	61.16	5	R. Relogio Federal, Rio: 24 h
73) ZYR60	4915	61.04	1	R. Cultura de Araraquara: 09.00-03.00
74) ZYE2	4915	61.04	2	R. Dif. Macapá, Amapá: 12.00-01.00
75) ZYL20	4925	60.90	1	Emis. Rio São Francisco, Penedo: 08.30-03.00

	Call	kHz	m	kW	Name & h. of tr.
76)	ZYV32	4925	60.90	1	R. Industrial de Juiz de Fóra: 09.00-02.00
77)	ZYA6	4925	60.90	1	R. Iracema, Sobral: 09.00-02.00
78)	ZYR248	*4935	60.80	0.5	Lins R. Clube, Lins
79)	ZYI21	4935	60.80	1	R. Poti, Natal: 09.00-03.00
80)	ZYO25	4945	60.67	1	R. Capixaba, Vitoria: 10.30-02.00
81)	ZYE22	4945	60.67	0.25	R. Dif. Mearim, Caxias do Sul: 11.00-01.00
82)	ZYE23	4945	60.67	1	R. Educadora de Bragança: 09.00-01.00
83)	PRF7	4955	60.54	2	R. Cultura de Campos: 08.30-15.00, 21.00-02.30 (or 03.00)
84)		4955	60.54	0.25	R. Caiari, Porto Velho: 10.00-03.30
85)	ZYY9	4975	60.30	5/2.5	R. Timbira, São Luiz: 12.00-03.00
54)	ZYP27	4975	60.30	1	R. Copacabana: 09.00-03.00
25)	ZYR89	4985	60.18	1	R. Aparecida: 09.00-03.00
86)	ZYZ5	4985	60.18	1.5	R.A Voz de Oeste, Cuiabá: 10.00-02.00
87)	ZYX9	4995	60.06	5	R. Brasil Central, Goiania: 08.00-03.00
89)	ZYX30	5025	59.70	1	R. Dif. de Aquidauana: 12.00-02.00
90)		5025	59.70	1	R. Dif. A Voz da Amazonia
91)	ZYK41	5025	59.70	0.5	Emis. Rural, Voz do São Francisco Petrolina: 08.55-12.00, 14.00-02.00
92)	ZYW22	5035	59.58	1	R. Anhanguera, Goiania: 09.00-04.00
93)	ZYO24	5035	59.58	0.5	R. Espirito Santo, Vitoria: 12.00-01.00
94)	ZYP23	5045	59.46	1	R. Imperial, Petrópolis: 11.00-01.00
95)	ZYX24	5055	59.35	2	R. Cult. de Cuiabá: 11.00-02.00
96)	ZYO23	5055	59.35	2	R. Vitoria: 15.00-21.00
97)	ZYR226	5955	50.38	10	R. Gazeta de São Paulo: 12.00-03.00
98)	ZYU60	5965	50.28	7.5	R. Guaiba, Porto Alegre: 09.00-03.00
99)	ZYT44	5975	50.21	10	R. Guarujá, Florianópolis: 11.00-04.00
100)	PRL5	5990	50.04	7.5	R. Ministerio da Educacão, Rio de Janeiro: irr.
101)	PRK5	6000	50.00	25	R. Inconfidencia, Belo Horizonte: 09.00-03.00
102)	PRA8	6015	49.88	5	R. Cl. de Pernambuco, Recife: 08.00-04.30
103)	ZYR63	6025	49.79	10	Emis. Piratininga, São Paulo: 11.00-04.00
104)	ZYZ26	6035	49.71	10	R. Globo, Rio de Janeiro: 09.00-03.00
105)	ZYS33	6045	49.63	25	R. Cl. Paranaense, Curitiba: 07.00-11.30, 14.30-03.00
106)	PRB21	6055	49.55	10	R. Panamericana, São Paulo: 12.00-01.00
107)	ZYZ31	6065	49.46	7.5	R. Rural Brasileira
108)	PRL–	6065	49.46	10	R. Nacional, Brasilia: 08.00-04.00
109)	ZYK2	6085	49.30	15	R. Jornal do Comercio, Recife
110)	ZYB7	6095	49.22	25	R. Dif. São Paulo: 09.00-03.00
111)	ZYN6	6105	49.14	5	Ceará R. Cl, Fortaleza: 08.00-03.00
112)	ZYC7	6115	49.06	100	R. Tamoio, Rio de Janeiro: 09.00-02.00
113)	PRG9	6125	48.98	7.5	R. Nacional, São Paulo: 09.00-03.00
114)	PRC21	6135	48.90	10	R. TV Gaucha, Porto Alegre: 09.00-04.00
115)	PRL9	6145	48.82	50	R. Nacional, Rio: 07.45-04.10
116)	ZYR58	6165	48.66	7.5	R. Cultura, São Paulo: 09.00-04.00
117)	ZYV74	6175	48.58	10	R. Guarani, Belo Horizonte: 24 h
118)	ZYR77	6185	48.50	10	R. Bandeirantes, São Paulo: 08.00-03.00
119)	PRD21	6195	48.43	10	Emis. Continental: 07.30-04.30
120)	PRN9	*9295	32.28	2.5	R. Dif. Departamento Segurança
106)	PRB22	9505	31.56	7.5/50	R. Record, São Paulo: 09.00-03.30
121)	PRD5	*9515	31.53	1	R. Roquete Pinto
122)	ZYZ43	9545	31.43	7.5	R. Emis. Paranaense, Curitiba: 10.00-03.00
109)	ZYK3	9565	31.37	15	R. Jornal do Comercio, Recife: 09.00-03.00
124)	ZYR56	9585	31.30	50	R. Exelcior, São Paulo: 10.00-04.00
71)	ZYN29	9595	31.27	20	R. Cultura de Bahia: 09.00-04.00
112)	ZYC9	9610	31.22	10	R. Tamoio, Rio de Janeiro: 09.00-02.00
125)	ZYR97	9620	31.19	10	R. 9 de Julho, São Paulo: 10.00-04.30
25)	ZYR83	9635	31.14	7.5	R. Aparecida: 09.00-03.00
103)	ZYR64	*9635	31.14	10	R. Piratininga, São Paulo
69)	ZYV40	9645	31.10	7.5	R. Cultura de Poços de Caldas: 08.00-04.00
126)		*9665	31.04		R. Rio de Janeiro
108)	PRL–	9665	31.04	10	R. Nacional, Brasilia: 08.00-04.00
127)	ZYT29	9675	31.01		R. Diario da Manha, Florianópolis: 08.00-03.00
97)	ZYR227	9685	30.98	7.5	R. Gazeta: 15.00-21.00
128)	ZYB22	9695	30.94	7.5	R. Rio Mar, Manaus: 13.00-01.00
129)	ZYZ24	9705	30.91	10	R. Mauá, Rio de Janeiro: 14.00-03.00
115)	PRL8	9720	30.86	50	R. Nacional, Rio: 07.45-04.10
130)	ZYU58	9730	30.83	7.5	R. Farroupilha, Porto Alegre: 12.00-03.00
116)	ZYR57	9745	30.79	7.5	R. Cultura, São Paulo: 09.00-03.00
87)	ZYW23	9775	30.69	7.5	R. Brasil Central: 08.00-03.00
100)	PRL4	9770	30.71	7.5	R. Ministerio da Educação, Rio de Janeiro: 09.00 (Sun 11.00)-03.00
108)	PRL–	11720	25.60	10	R. Nacional, Brasilia: 08.00-03.00
132)	ZYW28	11735	25.56	1	R. Cl. de Goiania: 09.00-04.00
103)	ZYR65	11745	25.54	10	R. Emis. Piratininga, São Paulo: 09.00-04.00
110)	ZYB8	11765	25.50	25	R. Dif. São Paulo: 09.00-03.00
98)	ZYU61	11785	25.46	7.5	R. Guaiba: 21.00-04.00
115)	PRI39	11795	25.43	10	R. Nacional, Rio: 07.45-04.10
104)	ZYZ36	11805	25.41	10	R. Globo, Rio: 09.00-03.00
87)	ZYW24	11815	25.39	7.5	R.Brasil Central, Goiania: 08.00-03.00
109)	ZYK32	11825	25.37	15	R. Jornal do Comercio, Recife: 09.00-03.00
102)	PRA8	11865	25.28	1	R. Cl. Pernambuco: 08.00-04.30
133)	ZYN32	11875	25.26	10	R. Soc. da Bahia, Salvador: 17.00-03.00
129)	ZYZ25	11885	25.24	10	R. Mauá, Rio de Janeiro: 17.00-03.00
114)	PRC23	11915	25.18	10	R. TV Gaucha, Porto Alegre: 09.00-04.00
118)	ZYR78	11925	25.16	10	R. Bandeirantes: 08.00-03.00
105)	ZYS35	11935	25.14	25	R. Cl. Paranaense: 12.00-24.00
100)	PRL3	11950	25.10	7.5	R. Ministerio da Educacão, Rio: 09.00 (Sun 11.00)-03.00
106)	PRB24	11965	25.07	50	R. Record São Paulo: 09.00-03.00
107)	ZYZ32	15105	19.86	7.5	R. Rural Brasileira
134)		*15115	19.85	7.5	R. Soc. Guiracá, Curitiba
133)	ZYN32	15125	19.83	10	R. Soc. da Bahia, Salvador: 08.30-17.00
106)	PRB23	15135	19.82	10	R. Panamericana: 09.00-03.30
109)	ZYK33	15145	19.81	15	R. Jornal do Comercio, Recife: 09.00-02.30
110)	ZYB9	15155	19.80	25	R. Dif. de São Paulo: 09.00-03.00
111)	ZYN7	15165	19.78	5	Ceará R. Clube: 08.00-03.00
135)		*15175	19.76	1	Emis. Tupanci, Pelotas
71)	ZYN30	15180	19.76	10	R. Cultura da Bahia: irr.
101)	PRK9	15190	19.75	5	R. Inconfidencia, Belo Horizonte: 09.00-03.00
85)	ZYY9	*15215	19.71	2.5	R. Timbira, São Luiz
36)	ZYE21	15245	19.68	7.5	R. Marajoara, Belém: 11.00-01.00
113)	PRG9	15265	19.66	50	R. Exelcior, São Paulo: irr.
97)	ZYR228	15325	19.58	5	R. Gazeta de São Paulo: 15.00-03.00
130)	ZYU68	15335	19.56	7.5	R. Farroupilha, Porto Alegre: 12.00-03.00
112)	ZYC9	15370	19.52	10	R. Tamoio & Tupi, Rio de Janeiro: 11.00-06.00
136)	ZYR206	15415	19.46	1	R. Cl. Ribeirão Preto: 12.00-01.00
108)	ZYN32	15445	19.43	10	R. Nacional de Brasilia: 08.00-04.00
126)		*15445	19.43	50	R. Rio, Rio de Janeiro
125)	ZYR96	17705	16.94	10	R.9 de Julho: irr.
137)	ZYR232	17725	16.93	1	R. Universitaria Santos Dumont, São Jose dos Campos: 23.00-02.00
56)		17795	16.86	5	R. Dif. de Amazonas: 10.00-01.00
131)	ZYR58	17815	16.82	10	R. Cultura, São Paulo: 09.00-03.00
115)	ZYZ–	17850	16.81	10	R. Nacional, Rio de Janeiro: irr.
100)	PRL2	17875	16.79	7.5	R. Ministerio da Educacão, Rio de Janeiro: 09.00-17.00

Medium Waves: ° – also on Short Wave.

	Call	kHz	kW		Call	kHz	kW
138)		540	1	134)	ZYM5	°560	10
125)	ZYR98	°540	10	44)	ZYW27	°580	10/5
42)	ZYZ22	°550	10	141)		580	10
139)	ZYN4	560	1/0.25	142)	PRG5	580	1/0.5
140)	ZYN41	560	5	143)	ZYM3	580	1/0.5

	Call	kHz	kW
144)	ZYM25	580	1/0.5
145)	ZYD4	580	1/0.5
146)	ZYN38	590	10
147)	ZYS50	590	5
72)	ZYZ21	°590	1
130)	PRB2	°600	50
21a)	ZYH35	°620	10
106)	PRH7	°620	5/10
149)	ZYX25	630	10
150)	ZYV44	630	1
151)	ZYA3	630	1
152)	PRJ6	630	1
31)	ZYV29	°630	5
153)	ZYU37	630	1
154)	PRF9	640	50/10
155)	ZYI22	640	10
156)	ZYK256	640	1
157)	PRG6	640	1
29)	ZYM22	°670	10/5
158)		670	5/1
124)	ZYR56	°670	10
159)	ZYK26	680	1
160)	ZYS65	680	1
161)	ZYD7	680	5
162)	ZYR255	680	1
54)	ZYP20	°680	5
114)	PRC2	°680	10
48)	ZYH29	°690	10
20)	ZYL22	°690	1
163)	PRC7	690	10
40)	ZYS44	°690	0.25
164)	ZYW3	690	1
42)	ZYR213	°700	50
64)	ZYA8	°720	1
102)	PRA8	°720	25
98)	ZYU58	°720	50
165)		720	1/0.25
166)		720	1
167)	ZYV53	730	1
168)		730	1
169)	ZYO9	730	1/0.25
170)	ZYR80	730	2
171)	ZYH8	730	1/0.25
91)	ZYK40	°730	5/1
96)	ZYO21	°730	1
136)	PRA7	°730	1
133)	PRA4	°740	50
120)	PRN9	°760	2
109)	PRL6	°780	20/10
22)	ZYR79	°780	0.25
27)	ZYV38	°780	0.25
172)	ZYU55	780	1
173)	PRK8	780	1
174)	ZYU71	780	1
100)	PRA2	°800	25
175)	ZYM6	820	1/0.25
176)	ZYR94	820	1
177)	ZYA4	820	1/0.25
178)	ZYK37	820	10
35)	PRI5	°820	0.25
7)	ZYV64	°840	1.25
118)	PRH9	°840	10
179)	ZYD8	840	10/5
180)	ZYW42	840	5
181)	ZYT33	840	1
182)	ZYU77	840	5
183)		840	1
184)	ZYS89	840	1
185)	PRA3	860	50
101)	PRJ3	°880	50
186)	ZYU33	880	10
97)	PRA6	°890	10/5
23)	ZYK20	°890	20
186a)	PRM3	890	25/5
187)	ZYI23	900	10
112)	PRB7	°900	10
188)	ZYR242	900	1/0.5
189)	ZYQ5	900	1/0.25
190)	ZYS77	900	1
191)	PRJ3	930	5
192)	ZYM20	930	5
193)	ZYH3	930	1
194)	ZYS25	930	5
195)	ZYU102	930	1/0.25
110)	PRF3	°960	10
66)	PRF4	°940	50
196)	ZYO4	960	10
197)	ZYF5	960	1/0.25
198)		960	5/1
47)	ZYR3	°970	10
199)	ZYH32	970	1
200)	ZYI26	970	1
201)	ZYI2	970	5
202)	ZYH21	970	1
203)	ZYS72	970	1
78)	ZYB3	°970	0.25
115)	PRE8	°980	50
106)	PRE9	°1000	50
204)	PRB3	1010	2

	Call	kHz	kW
127)	ZYT26	°1010	7.5
71)	ZYN23	°1010	10/5
206)	ZYS42	1010	0.25
207)		1020	30/20
208)	PRB8	1030	1/0.25
39)	ZYK27	°1030	10
119)	PRD8	°1030	7.5
209)	PRG2	1040	50
210)	PRD2	1060	10
211)	PRD7	1080	1
212)	ZYN24	1080	1
213)	ZYB4	1080	1/0.5
214)	ZYX7	1080	1/0.25
215)	ZYE4	1080	1/0.5
216)	ZYU67	1080	2/0.5
217)	ZYV47	1080	1/0.25
52)	ZYV52	°1080	0.25
218)	ZYK22	1080	1/0.25
219)	ZYR64	1080	1/0.25
26)	ZYI28	°1080	1/0.5
221)	ZYW38	1080	5
222)	ZYE28	1080	10
21)	PRI2	°1090	1
76)	ZYT9	°1090	1
223)	ZYT38	1090	1/0.25
224)	ZYN25	1090	1
225)	ZYR240	1090	1
26)	ZYI25	°1090	10
100)		1090	1
226)	ZYU56	1100	1
113)	PRG9	°1100	50
53)	PRI14	°1110	10
227)	ZYS57	1110	1
228)	ZYT25	1110	1/0.25
229)	ZYS67	1110	1/0.25
83)	PRF7	°1110	5
230)	ZYV66	1110	1
231)		1110	1
71)	ZYN20	°1120	10
232)	ZYU	1120	10
36)	ZYE20	°1130	10
129)	PRH8	°1130	10
43)	ZYI24	°1130	1
233)	ZYR217	1130	1
234)	ZYT34	1130	1/0.25
235)		1130	1
236)	ZYK34	1130	1
238)	ZYH7	1160	1/0.5
239)	ZYS73	1160	1
93)	PRI9	°1160	10
86)	PRH3	°1160	1
240)	PRF5	1160	1
241)	ZYA5	1160	1
242)	ZYS	1160	1
67)	ZYG25	°1160	1
50)		°1170	1
84)	ZYG35	°1170	0.25
243)	ZYI20	1170	1
244)	PRC9	1170	5
245)	ZYU72	1170	1/0.25
246)	ZYU38	1170	1/0.25
247)		1170	1/0.25
104)	PRE3	°1180	50
103)	PRB6	°1200	10
111)	PRE9	°1200	10
249)	ZYU91	1200	1/0.25
108)	PRL	°1210	10/5
24)	PRG8	°1210	1/0.5
250)	ZYL9	1210	1/0.5
60)	ZYB2	°1210	1/0.5
122)	ZYZ9	°1210	1
251)	ZYX	1210	1
252)	ZYK23	1210	1/0.5
253)		1210	1
254)	ZYU46	1210	1
255)	ZYU210	1210	1/0.25
123)	PRA9	°1220	50
256)	ZYB21	1240	5
257)	ZYC4	1240	1/0.5
258)	ZYP4	1240	1/0.5
259)	PRB5	1240	1
260)	PRE6	1240	5
261)	ZYU76	1240	1/0.25
262)	ZYR84	1240	1/0.25
37)	ZYK36	°1240	5/1
263)	ZYT43	1240	1/0.25
264)	ZYL4	1250	1
266)	ZYO3	1250	1
267)	PRJ2	1250	1
18)	ZYR43	°1250	0.25
50)	ZYY20	°1250	1
268)	PRA5	1260	10/5
28)	ZYX27	°1260	1
269)	ZYR263	1260	1
270)	ZYS79	1260	1/0.25
271)	ZYG	1260	10
37)	ZYL21	°1260	5
272)	ZYV65	1260	1/0.25
46)	ZYR39	°1270	1

	Call	kHz	kW
87)	ZYX9	°1270	10
273)	ZYS23	1270	1/0.25
274)	ZYV62	1270	1
275)	ZYU44	1270	1
79)	ZYB5	°1270	1
112)	PRG3	°1280	50
116)	PRE4	°1300	10/5
58)	ZYR7	°1300	10
276)	ZYX22	1300	1
277)	ZYS87	1300	5
278)	ZYR264	1300	1/0.25
279)	ZYR201	1320	1
132)	ZYG3	°1320	5
280)	PRH4	1320	1/0.5
281)	ZYL25	1320	0.25
282)	ZYT31	1320	5
126)	ZYZ34	°1320	10
283)		1320	1
284)		1320	10
285)	ZYS68	1320	5
17)	PRI8	°1330	1/0.5
286)	ZYV59	1330	1/0.35
287)	ZYV33	1330	1/0.5
288)	ZYI5	1330	1/0.5
289)	PRC4	1330	1/0.5
290)		1330	1/0.5
291)	ZYE25	1330	10
117)	PRH6	1340	25/5
292)	ZYX2	1340	1/0.25
293)	ZYI25	1340	1
111)		1340	1
294)	ZYX5	1340	1/0.25
69)	PRH5	1350	5
296)	ZYU85	1350	1
297)	ZYN35	1350	5
34)	ZYB38	1350	1
298)		1350	1/0.25
299)	ZYR251	1350	1/0.25
300)	ZYO26	1350	1
88)	PRC8	1360	10
301)	ZYH25	1360	10
302)	ZYU82	1360	1
303)	ZYS86	1360	5
304)	ZYR90	1360	5
73)	PRD4	°1370	1/0.5
80)	ZYO22	°1370	1
305)	ZYK31	1370	5
63)	ZYQ3	°1370	1
306)	ZYF3	1370	5/0.5
92)	ZYW21	°1370	1
307)	ZYR212	1370	1
61)	PRE5	°1390	1
308)	ZYS46	1390	1
309)	ZYI32	1390	1/0.5
310)	ZYK25	1390	1
311)	ZYV49	1390	2
312)	ZYU75	1390	1
313)	ZYN39	1390	1
314)	ZYH30	1400	5
121)	PRD5	°1400	10
315)	ZYR224	1400	1/0.25

	Call	kHz	kW
316)	PRK6	1400	1
317)		1400	1
318)	ZYS76	1400	5
51)	ZYF21	°1410	1
10a)		°1410	1
319)	PRE7	1410	25/10
320)	ZYH26	1410	10
321)	ZYI4	1420	1/0.25
322)	ZYU94	1420	1
99)	ZYJ7	°1420	5/2.5
323)		1420	1
324)	PRE2	1430	10
325)	ZYG21	1430	1
326)	ZYH5	1430	1/0.25
327)	ZYN21	1430	1
105)	PRB2	°1440	10
31)	ZYV29	°1440	5
70)	PRF6	°1440	1
65)	PRC5	°1450	10
329)	PRB4	1450	5/2
330)	ZYJ20	1450	1
331)	ZYP36	1450	5/2.5
332)	ZYT21	1450	1/0.25
333)	ZYR249	1450	1
68)	ZYD9	°1460	0.25
334)	ZYH22	1460	1
74)	ZYE2	°1460	0.25
335)	PRF2	1460	0.25
337)	ZYE3	1470	1/0.5
338)	ZYD2	1470	1/0.5
1)	PRC6	°1470	1/0.5
339)	ZYZ6	1470	1
340)		1470	1
59)	PRJ4	1470	0.5
341)	ZYN3	1470	1
342)		1470	1
11)	ZYJ3	°1480	0.5
128)	ZYB20	°1480	1
343)	ZYH20	1480	1
57)	PRD3	°1480	5
82)	ZYE22	°1480	0.25
75)	ZYL20	°1490	1
85)	PRJ9	°1490	1
344)	ZYA2	1490	2
345)	ZYP29	1490	1/0.5
346)	ZYU46	1510	1/0.25
347)	ZYY5	1510	
348)	ZYG20	1510	0.25/1
349)	ZYA9	1530	1
350)	ZYS2	1530	1
351)	ZYU34	1530	1/0.25
19)	ZYM9	°1540	1
353)	ZYS9	1540	2.5
354)	ZY1	1540	2.5
5)	ZYP39	°1550	0.25
6)	PRJ5	°1550	0.25
4)	ZYK	°1560	1
355)	ZYN33	1560	1
3)		°1570	0.25
55)	ZYV39	°1590	0.25
25)	ZYR44	°1600	0.25

State Abbreviations: AC = Acre, AL = Alagoas, AM = Amazonas, AP = Amapá, BA = Bahia, CE = Ceará, DF = Brasilia, ES = Espirito Santo, GB = Guanabara, GO = Goiás, MA = Maranhão, MG = Minas Gerais, MT = Mato Grosso, PA = Pará, PB = Paraiba, PE = Pernambuco, PI = Piaui, PR = Paraná, RJ = Rio de Janeiro, RD = Rondônia, RN = Rio Grande do Norte, RS = Rio Grande do Sul, SC = Santa Catarina, SE = Sergipe, SP = São Paulo.

Short Waves:

1) C.P. 173, Überlandia, M.G. **Te:** 4466. **Cable:** Radioco. **D.Prgr: N:** 13.30, 20.00. **Ann:** "R. Difusora Brasileira, PRC6 e ZYV30, Überlandia, MG. **V.** by letter.

2) Itacoatiara, AM.

3) Parintins, AM.

4) Rua do Expeditionario 30, Carauru, PE. **L.P:** Dir: J. Almeida.

5) Rua Francisco da Rosa 84, São João de Miriti, RJ.

6) C.P. 105, Limeira, SP. **L.P:** Dir. Gen: J. C. Bortolan. Mgr: V. Bortolan Filho. Dir. Tec: G. Wiss. **Ann:** "PRJ5 e ZYE78 R. Educadora de Limeiro, SP".

7) C.P. 377, Governador Valadares, MG. **Te:** 5322. **Cable:** Repumm. **Ann:** "ZYV64, ZYV71 Onda Media e Onda Tropical, da R. Por um Mundo Melhor, de Governador Valadares, Minas Gerais, uma emissora Católica a serviço do Brasil". **V.** by letter. Rp. Recordings accepted.

8) Rua R. Rocha Medeiros 1113, Monte Alto, Jabotical, SP.

9) Mossoró, Pra. Rafael Fernandes, RN.

10) C.P. 77, Amparo, SP.

10a) Rúa Leopoldo Machado, Macapá, AP.

11) C.P. 909, Anápolis, GO. **Te:** 2263. **Cable:** Caraja. **Ann:** "ZYJ3 e ZYW32, emissoras de ondas média, curta e FM de sua R. Carajá de Anápolis". **V.** by letter.

12) C.P. 6, Leopoldina, MG. **Cable:** Sirena. **Ann:** "R. Sirena, do Sistema Radioeducativo Nacional do Ministerio da Educacão e Cultura". **V.** by letter. Re. in P, Sp or E.

13) Santarem.

14) C.P. 95, São Carlos, SP. **V.** by letter.

15) Av. Pedro II 220, Cuiz, MA.

16) Av. 1° de Maio 27, Rio Bonito, RJ.

17) C.P. 246, Aracatuba, SP. **Te:** 2270. **Cable:** Radiocultura. **L.P:** Dir. Gen: N. Fares. St. Mgr: M. P. Campos. Dir. Tec: F. C. Arroyo.

D.Prgr: N: 13.00, 15.15, 23.45. **Japanese:** 10.30-11.00 on 2450kHz. **Ann:** "Emissoras brasileiras da R. Cultura de Aracatuba, operando em ondas médias e tropicais". **V.** by letter. Recordings accepted.
18) Rua 7 de Setembro 301, Socoraba, SP. **Te:** 23712. **V.** by letter. Recordings accepted.
19) Rua Dr. Candido Rodriguez 87, Bragança Paulista, SP. **V.** by letter. Recordings accepted.
20) Praça D. Pedro 11, Maceio. **Ann:** "R. Educ. Palmares de Alagoas, ondas medias, curtas, una Emissora da Familia Alagoana". **V.** by letter.
21) Rua Paes Leme 20, Marilia, SP.
21a) Visc. Saboya 280, Fortaleza, CE. **D.Prgr:** 08.00-03.00. **V.** by letter. Recordings accepted.
22) C.P. 814, Ribeirão Preto, SP.
23) Av. Cruz Cabugá 394, Recife, PE. **Te:** 4-1522. **Cable:** Diarbuco. **V.** by letter. Rp.
24) Rua Batista Carvalho 7-36, Bauru. **L.P:** Dir. Gen: J. R. Aquilino. Dir. Prgr: C. Goncalves. **V.** by QSL-card. Re. in P, Sp or E, F.
25) Praça NS Aparecida 315, Aparecida. **Te:** 2197. **L.P:** Dir. Gen: V. Coelho de Almeida. St. Mgr: S. de Neme Jorge. **Ann:** "R. Aparecida a mais poderosa emissora católica das Americas em Ondas Curtas, Medias & Tropicais, de Aparecida, São Paulo, Brasil". **V.** by QSL-card. Rp. Recordings accepted. 2 IRC's requested for QSL.
26) Praça Pio X 335, Natal, RN. **Ann:** "Emissora de Educacão Rural, ondas média e curta, a pioneira do ensino rediofônico em todo o território nacional". **V.** by letter. Re. in Sp, P.
27) C.P. 401, Uberlandia, MG. **Te:** 2340. **L.P:** Dir: M. L. de Carvalho. Dir. Tec: F. J. S. de Carvalho. **V.** by letter. Recordings accepted.
28) Rua 14 de Julio 1482, Campo Grande, MT. **Te:** 2691. **L.P:** Dir. Gen: A. Barbosa. Dir: A. Guerra. Dir. Tec: C. A. Scherman. **Ann:** "R. Educacão Rural, una emissora a serviço do bem". **V.** by letter.
29) Simão Dias 643, Aracaju SE.
30) C.P. 57, Crato, CE. **L.P:** Pres: V. de Araujo Matos.
31) Rua Coromandel 117, Belo Horizonte, MG. **Te:** 48595. **L.P:** Dir. Gen: J. Carneiro. Dir. Tec: W. Arantes. **D.Prgr:** 24 h (mw + FM). **Ann:** "R. Itatiaia a emissora Brasileira que mais crese". **V.** by letter. Recordings accepted.
32) Rua do Comércio 515, Maceio. **Te:** 4139. **Cable:** Radiogoas.
33) Rua Pedro II 148, Guarulhos. **L.P:** Dir: P. C. Nogueira.
34) C.P. 160, Campina Grande, PB. **Te:** 1960. **L.P:** Dir. Gen: H. P. de Campos. Dir. Tec: J. C. de Albuquerque. **D.Prgr: N:** 10.00, 15.00, 15.45, 20.35, 01.00. **Ann:** "R. Borborema, Emissoras Associades de Campina Grande". **V.** by letter. Rp. Recordings accepted.
35) C.P. 5, Pres. Prudente, SP. **L.P:** Dir. Gen: A. Campos. **Ann:** "R. Presidente Prudente, uma das Emissoras Coligadas, falanda para todo a Brasil" or "PR15 e ZYR59, R. Difusora de Presidente Prudente, uma das Emissoras Coligadas, transmitiendo simultaneamente em ondas médias e curtas 1240kc, 3335kc".
36) Travessa Campos Sales 100, Belém, PA. **Te:** 3422. **Cable:** Provan. **V.** by letter. Rp.
37) Rua S. Campos 259, Recife, PE. **Te:** 42174. **L.P:** Dir. Gen: A. Moreira P. Dir: H. Pinto. Dir. Tec: O. Sihler. **Ann:** "R. Capibaribe do Recife, a Jovem Cap". **V.** by QSL-card. Rp. Recordings accepted.
38) C.P. 414, Londrina, PR. **Te:** 1842. **Ann:** "R. Alvorada de Londrina, a Emissora da Familia Paranaense". **V.** by letter. Rp. Recordings accepted.
39) C.P. 1313, Recife, PE. **Te:** 45373. **Cable:** Radiolinda. **Ann:** "R. Olinda, ZYK27, ZYK28, a mais popular emissora pernambucãna". **V.** by letter. Rp.
40) C.P. 1870, Londrina, PR.
41) C.P. 125, Teresina, PI.
42) Av. Pres. Vargas 417, Rio de Janeiro, GB.
43) Praça Rafael Fernandes 8, Mossoró. **Ann:** "R. Tapuyo de Mossoró, ondas médias e curtas falando para todo o Brasil. A mais popular emissora mossoroense". **V.** by letter. Recordings accepted.
44) Praça C. Joaquim Lucio 153, Goiânia, GO.
45) C.P. 152, São Luiz, MA. **V.** by letter.
46) C.P. 625, Campinas, SP. **Te:** 95570. **Ann:** "Transmite R. Brasil Campinas, ondas medias e curtas e tropicais uma emissora de Rádiodifusão da Organização Irmãos Pedroso". **V.** by letter and QSL-card. Recordings accepted. Rp.
47) C.P. 32, Feira de Santana. **Te:** 168. **L.P:** St. Mgr: F. A. de Crato. Dir. Tec: D. Nogueira. **Ann:** "ZYR3 e ZYN37 R. Soc. de Santana". **Int-Sig:** Vibraphone. **V.** by letter. Recordings accepted. Rp.
48) Rua P. Pereira 383, Forteleza, CE. **D.Prgr: N:** 14.50, 01.35. **Ann:** "R. Dragão do Mar, a emissora do Ceará que o mundo escuta". **V.** by letter.
49) Av. Liberdade 1034, São Paulo. **Te:** 32-8708.
50) Av. Carlos Gomes s/n, Porto Velho, RD. **D.Prgr: N:** 11.00, 02.30 and short N every h on the h 12.00-24.00 exc. 17.00, 22.00. **V.** by letter. Recordings accepted.
51) Rua do Apium 118-130, São Luiz, MA.
52) Av. Verghio Franco 375, Cambuquira, MG.
53) Palacio do Governo Rodriguez de Aquino s/n°, João Pessoa, PB. **D.Prgr: N:** 21.45, 24.00, 01.35. **Ann:** "PRI4, R. Tabajara da Paraiba transmitiendo em ondas curtas e médias". **V.** by letter. Re. in E, Sp, F.
54) Av. Rio Branco 277, 6°, Rio de Janeiro, GB. **Ann:** "R. Copacabana, a emissora do Otimismo".
55) Praça de Basilica, Congonhas, MG. **Te:** 38. **V.** by letter.
56) Eduardo Ribeiro 566, Manaus, AM.
57) Praça D. Pedro II° 17, Petropolis, RJ. **Cable:** Difusora. **L.P:** Dir. Gen: W. Carneiro Malta. **D.Prgr: N:** 16.00, 23.25, 01.05, 02.45. **Ann:** "Emissoras de ondas médias e curtas da Petropolis R. Difusora, o microfone lider do Estado do Rio". **V.** by letter.
58) C.P. 578, Fortaleza, CE.
59) Praça Santo Antonio 880, Parnaiba, PI. **Te:** 1199. **D.Prgr: N:** 14.55, 23.30. **Ann:** "PRJ4 o ZYE7, emissoras da R. Educadora de Parnaiba, em 1470 e 4825kc, onda de Parnaiba-Piaui, Brasil". **V.** by QSL-card and letter. Recordings accepted.
60) C.P. 102, Varginha, MG. **Te:** 2862. **L.P:** Dir. Gen: F. de Sousa Pinto. St. Mgr: S. Sampaio. Dir. Tec: O. C. Corsino. **D.Prgr: N:** 14.30, 21.30. **Ann:** "ZYB2 e ZYV56, Emissoras da Sociedade R. Clube de Varginha Ltda". **V.** by letter. Recordings accepted.
61) C.P. 38, Uberaba, MG.
62) C.P. 171, Boa Vista, RS. **Cable:** Radiodaima.
63) Rua Arcolino de Abreu 1101, Terezina, PI. **Te:** 316. **Cable:** Radiofusora. **V.** by letter. Rp.
64) Rua V. do Rio Branco 247, Taubaté, SP. **Te:** 302. **L.P:** Dir. Gen: E. A. Beringhs. Dir. Tec: A. R. Gonçalves. **D.Prgr:** 24 h (mw). **N:** 14.00. **Ann:** "ZYA8 e ZYR61 da R. Difusora Taubaté, S. Paulo, Brasil". **V.** by QSL-card. Recordings accepted.
65) C.P. 533, Belém, PA. **Te:** 3263. **L.P:** Dir. Gen: E. P. Proença. St. Mgr: L. Penalber. Dir. Tec: M. Santos. Dir. Prgr: J. Duarte. **D.Prgr:** 09.00-03.00 (mw). **N:** 10.15, 11.25, 15.10, 16.25, 17.55, 20.55, 23.35, 01.30. **Ann:** "PRC5 R. Clube do Pará, a Voz que fala e canta para e planicie". **V.** by letter. Recordings accepted. Rp.
66) Av. Rio Branco 110, Rio de Janeiro. **Te:** 22-1818. **Ann:** "PRF4 e ZYZ30, R. Jornal do Brasil, Musica e Informação". **V.** by letter. Recordings accepted. **FM:** 88.5MHz.
67) Rua Teodoro Pacheco 1179, Teresina, PI.
68) Departamento do Imprensa e Radiodifusão do Acre, Rio Branco.
69) C.P. 143, Poços de Caldas, MG. **L.P:** Dir: J. B. Rocha. **Ann:** "R. Cultura Poços de Caldas, uma das Emissoras da Cadeia Verde Amarela". **V.** by letter or QSL-card. Rp. preferred.
70) Av. Eduardo Ribeiro 566, Manáus, AM. **Te:** 1135. **Cable:** Radio Bareh. **L.P:** Dir. Gen: E. C. Barahuna. **V.** by letter. Rp.
71) Av. 7 de Setembro 311, Salvador, BA. **Te:** 50125. **Cable:** Radiocultura. **L.P:** Gen. Mgr: J. R. Rocha. St. Dir: M. M. da Silva. **V.** by QSL-card. Rp. Recordings accepted.
72) Av. Pres. Vargas 417A, Rio de Janeiro, GB. **V.** by letter or QSL-card.
73) C.P. 22, Araraquara, Sp. **Te:** 2828. **L.P:** Dir. Gen: R. Lupo. St. Mgr: J. A. Quirino dos Santos. Dir. Prgr: J. R. David. **D.Prgr: N:** 12.00, 19.00. **Ann:** "Emissoras da R. Cultura Araraquara, PRD4, ZYR60, PRD4-FM, ondas medias tropicais e FM". **V.** by letter. Recordings accepted. **FM:** 97.3MHz (music only).
74) Av. Candido Mendes, Macapá, AP. **L.P:** Dir: A. Nogueira de Souza. **D.Prgr: N:** every h on the h and W 21.30. **V.** by letter. **F.Pl:** 10kW sw-tr.
75) C.P. 4, Penedo, AL. **L.P:** Dir: H. de Castorano. Dir. Tec: J. E. dos Santos. **D.Prgr: N:** 01.00. **Ann:** "Emissora Rio São Francisco ZYL20". **V.** by letter. Re. in E, P. Recordings accepted.
76) C.P. 262, Juiz de Fora, MG. **L.P:** Dir. Gen: Dr. S. V. Mendes. **D.Prgr:** N: 12.00, 15.10, 20.00, 22.30, 00.30. **Ann:** "Emissoras Brasileiras de ondas curtas e médias da R. Industrial de Juiz de Fora, Estado de Minas Gerais". **V.** by letter.
77) Praça Monsenhor Linhares, Sobral, CE.
78) Rua Luiz Gama 492, Lins, SP. **L.P:** Dir: A. Zago. **Ann:** "Lins R. Clube, ondas medias e tropicais, uma das Emissoras Coligadas".
79) C.P. 145, Natal, RGN. **Te:** 2582. **Cable:** Radio Poti. **Ann:** "R. Poti, Natal, Brasil" (also ann. in English and French every h and half h). **V.** by letter. Recordings accepted.
80) Escadaria São Brento 25, Vitoria, ES. **Ann:** "Estaçoes de ondas médias e curtas, R. Capixaba, Vitoria, Brasil".
81) Av. J. de Castilhos 1576, Caxias, MA.
82) Rua Dr. Candido Rodrigues 87, Bragança, PA. **Te:** 112. **D.Prgr: N:** 09.55, 10.55, 11.55, 19.55, 24.00. **Ann:** "R. Educadora de Bragança ZYE22, ZYE23 ondas médias e tropical . . . . a Emissora Católica da familia brasileira". **V.** by letter.
83) C.P. 79, Campos, RJ. **Te:** 1582. **L.P:** Dir. Gen: M. F. Sampaio. **D.Prgr: N:** 09.45, 19.30. **Ann:** "PRF7 R. Cultura de Campos, a pioneira lider do Estado do Rio de Janeiro". **V.** by letter. Recordings accepted. Rp.
84) C.P. 104, Porto Velho, RD. **Te:** 272. **L.P:** Dir. O. C. Vilhena. Dir. Tec: F. O. Barbosa. **Ann:** "R. Caiari de Porto Velho, Rondônia Brasil". **V.** by letter. Recordings accepted.
85) Edif. Matos Carhalho 3° andar, São Luiz, MA. **Te:** 1160.
86) C.P. 126, Cuiaba, MT. **L.P:** Dir: J. Oliveira.
87) C.P. 330, Goiania, GO. **Te:** 6-2555. **Cable:** Ersebece. **L.P:** Dir. Gen: J. Abrão. St. Mgr: S. Fracai. Dir. Tec: J. Fleury. **D.Prgr: N:** 12.00, 15.00, 21.54, 23.24, 01.04, 03.00 (Sun 11.25, 12.25, 13.25, 14.25, 15.54, 21.25, 22.25, 23.24). **Ann:** "R. Brasil Central Goiania, antenas para o Mundo". **V.** by QSL-card. Recordings accepted.
88) Av. Treze de Maio 23, Rio de Janeiro, GB. **Te:** 32-8199. **Cable:** Radioguan. **L.P:** Dir. Gen: J. J. Saad. St. Mgr: D. Tanus. Dir. Tec: M. O. Manos. **D.Prgr:** 09.00-06.00. **N:** 12.55, 16.25, 17.25, 18.25, 19.55, 21.55, 01.55, 03.00. **Ann:** "PRC8, R. Guanabara, Rio de Janeiro, Brasil". **V.** by letter. Rp. Recordings accepted.
89) Rua Estvão a correa 478, Aquidauana, MT.
90) Manaus, AM.
91) Rua Dr. Pacifico da Luz, Petrolina, PE. **Cable:** Emissora. **Ann:** "ZYK40 e ZYK41 Emissora Rural do São Francisco operando nas frequencias de 730kc, onda media e 5025kc onda tropical". **V.** by QSL-card and letter. Recordings accepted.
92) C.P. 7, Goiania, GO. **Te:** 6-1855. **Cable:** Radite. **L.P:** St. Mgr: T. J. da Cámara. Dir. Tec: J. W. Schmaltz. **D.Prgr: N:** Every h. **Ann:** "ZYW21 Onda Média e ZYW22 Onda Curta, frequencias de 1370 o 5035kHz Anhanguera difusora e televisora". **V.** by letter.
93) C.P. 80, Vitoria, ES. **L.P:** Dir: H. Blachman.
94) C.P. 225, Petropolis, RJ. **L.P:** Dir: N. Paiva.
95) Guiaba, MT. **L.P:** Dir: V. D. Cezar.
96) Praça Costa Pereira 132, Vitoria, ES. **Te:** 3406. **Cable:** Ravito. **Ann:** "Ouvem a R. Vitoria, da Capital de Espirito Santo, Brasil". **V.** by letter. Rp.
97) Av. Paulista 900, 4° andar, São Paulo. **Te:** 355151. **Cable:** Radigazeta. **L.P:** Dir. Gen: I. F. de Campos. St. Mgr: J. F. Jorge. Dir. Tec: J. da Costa Oliveira. Dir. Tec. (TV): C. Paiva. **D.Prgr: N:** 15.00, 19.00, 01.30 also every h on the h. **Ann:** "PRA6 R. Gazeta, São Paulo, a emissora da Elite, simultaneamente com ondas medias e curtas". **Int-Sig:** First Movement of "Concert in B" by Tjaikowsky. **V.** by QSL-card. Rp.

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98) Rua Caldas Jr. 219, Porto Alegre, RGS. **D.Prgr:** N: 10.00, 16.00, 22.50, 02.00. **Ann:** "Emissoras Brasileiras de ondas médias e curtas de R. Guaiba de Porto Alegre, Rio Grande do Sul, Brasil". V. by letter or QSL-card. Recordings accepted.
99) C.P. 45, Florianopolis, SC. V. by QSL-card.
100) Ministerio da Educação e Cultura, Praça da Republica 141-A, Rio de Janeiro, GB (Owned and operated by The Federal Go. Ministry of Education). **L.P:** Dir. Gen: E. L. Viama. Dir. Tec: H. C. de Souza. **D.Prgr:** N: W 12.00, 15.00 (daily), 20.00, 22.00, 24.00, 02.50. **LL:** English W 10.30, French W 10.00. **Ann:** "R. Ministerio de Educação e Cultura, transmitiendo pela Cultura, dos que vivem em nossa tena, pelo progresso do Brasil". V. by letter.
101) C.P. 1027, Belo Horizonte, MG. **Te:** 21589. **Ann:** "Aqui falam PR13, PRK5, Emissoras de ondas curtas e medias da R. Inconfidencia, Belo Horizonte, Minas Gerais, Brasil". V. by QSL-card or letter. Re. in E.
102) Av. Cruz Cabuga 394, Recife, PE. **Te:** 4-1522. **Cable:** Diarbuco. **D.Prgr:** N: 00.00, 01.00. **Ann:** "Esta é R. Clube de Pernambuco, PRA8, do Recife, transmitiendo em onda média, na freq. de 720kc, em ondas curtas, 6015 e 11865kc, em 49 e 25 metros respectivamente". V. by QSL-card. Recordings accepted. Rp.
103) C.P. 8087, São Paulo, SP. **Te:** 334175. V. by QSL-card.
104) Rua Irineu Marinho 35, Rio de Janeiro. **Te:** 32-4233. **L.P:** Dir: L. Brunini. Dir. Tec: D. S. Ferreira. **D.Prgr:** N: Every h on the h. **Ann:** "R. Globo do Rio de Janeiro, uma emissora de 'O Globo', o major jornal do pais". V. by QSL-card. Re. in P, Sp, E, F. Recordings accepted. **FM:** 92.5MHz.
105) C.P. 448, Curitiba, PR. **Te:** 4-4377. **Cable:** Bedois. **L.P:** Dir: Dr. U. Lustosa. Dir. Tec: J. B. Lourenco. **D.Prgr:** 07.00-03.00 (mw). N: 10.00, 01.30. **Ann:** "R. Club Paranaense a maior potencia radiofonica do Paraná, liderança local presenca nacional". V. by QSL-card. Recordings accepted.
106) Av. Miruna 713, São Paulo, SP. **Te:** 613667. **Ann:** "PRH7 R. Panamericana São Paulo, Brasil, a mais geuida". PRE9: "R. Record". V. by letter.
107) Ministerio da Agricultura, Largo da Misericordia 4°, andar, Rio de Janeiro. V. by QSL-card.
108) C.P. 1472, Brasilia, DF. **L.P:** Dir: P. N. Viera. Dir. Tec: U. Venancio. **D.Prgr:** N: (R. Nacional Brasilia): 11.00, 12.00, 13.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.50, 23.00, 01.00. **Ann:** "R. Nacional de Brasilia, Ondas Médias e Curtas, falando para o Brasil e para o Mundo". V. by letter. Recordings accepted. Rp.
109) Av. Imperador Pedro I, 346, Recife, PE. **Ann:** P: "R. Jornal do Comércio, Recife, Pernambuco, ondas médias e curtas" or "Emissoras da R. Jornal do Comércio, Pernambuco, a voz mais potente de Brasil". V. by QSL-card.
110) C.P. 252 & 4142, São Paulo. V. by QSL-card or letter.
111) C.P. 222, Fortaleza, CE. **Te:** 1-3125. **Cable:** Prenove. V. by letter. Rp. (1340kHz Pinheiro, MA).
112) Av. Venezuela 43, Rio de Janeiro, GB. **Te:** 43-1309. **L.P:** Dir. Gen: A. Nogueira. Dir. Prgr: R. Rezende. **Ann:** "R. Tamoio do Rio de Janeiro, o Cacique do Ar". V. by letter. Rp.
113) Rua Sebastião Pereira 218, São Paulo. **Ann:** "PRG9, R. Nacional São Paulo, Brasil". V. by QSL-card and letter.
114) C.P. 1164, Porto Alegre, RS. **Cable:** Pioneira. **Te:** 31822. **L.P:** Dir: M. Sirotzky S. St. Mgr: J. Sirotzky. **D.Prgr:** N: 10.00, 15.00, 01.30. **Ann:** "Esta é a PRC2, PRC21 and PRC23, R. Gaucha de Porto Alegre, Rio Grande do Sul, Brasil". V. by letter. Rp.
115) Praça Maua 7, 19-22° andar, Rio de Janeiro. **Te:** 438850. **L.P:** Dir. Gen: P. T. Gomes. Dir: S. Vasconcellas. Dir. Tec: J. Nicolay. **D.Prgr:** N: Every h on the h. **Ann:** "PRE8, R. Nacional do Rio de Janeiro, transmitiendo em'ondas médias e curtas". **Int-Sig:** First movement of the Brasilian musical poem "Luar do Sertão". V. by letter and/or QSL-card. **F.Pl:** Foreign Sce. (on sw) in French, English, Spanish.
116) Rua 7 de Abril 230, São Paulo. **Te:** 34-4181. **Ann:** "PRE4, R. Cultura de São Paulo, transmitiendo em ondas médias, curtas e frequencia modulada".
117) C.P. 140, Belo Horozonte, MG. **Te:** 2-2445. **Cable:** Radio Guarani. V. by QSL-card. Rp. Recordings accepted.
118) C.P. 372, São Paulo, SP. **Te:** 80-1613. **Cable:** Radiantes. **L.P:** Prés: J. Jorge Saad. Vice Pres. J. Saad. Gen. Mgr: R. Saad. Dir. Tec: L. Aurani. **Ann:** "PRH9, R. Bandeirantes, a mais popular emissora Paulista". **Int-Sig:** Vibraphone and organ. V. by QSL-card or letter. Recordings accepted. Rp. preferred.
119) Rua Riachuelo 48, Rio de Janeiro, GB. **Te:** 52-8021.
120) Departamente de Segurança Nacional, Rua da Relação, Rio.
121) Av. Erasmo Braga 118, Rio de Janeiro, GB. **Te:** 31-1264. V. by letter. Recordings accepted.
122) C.P. 471, Curitiba, PR. **Te:** 41393. **D.Prgr:** mw: 09.00-03.00. **ZYS47 R. Curitibana:** 09.00-02.00. **Ann:** "Emissoras de ondas curtas, médias e frequencias modulada da R. Emissora Paranaense, Curitiba, Paraná, Brasil". V. by letter and QSL-card.
124) Rua da Palmeiras, São Paulo.
125) Rua Wenceslau Braz 78, São Paulo. **Te:** 333246. **Ann:** "R. Nove de Julho de São Paulo, Brasil". V. by letter. Rp.
126) Av. Rio Branco 277, Rio de Janeiro, GB.
127) C.P. 331, Florianópolis, SC. **L.P:** Dir. Gen: E. S. de Almeida. Dir. Tec: L. Bruno. **D.Prgr:** N: 09.00, 10.25, 11.00, 12.30, 15.00, 16.00, 17.30, 20.00, 21.50, 24.00, 01.05, 02.45. **Ann:** "Emissoras brasileiras de onda média e curta da R. Diario de Manhã de Florianópolis, Santa Catarina" or "Estaçoes de Florianópolis da R. Diario de Manhã". V. by QSL-card. Recordings accepted.
128) C.P. 445, Manaus, AM. **Te:** 2-3567. **Cable:** Emissora. **L.P:** St. Mgr: P. T. de Souza Brás. Dir. Tec: F. Bezerra. **D.Prgr:** 09.00-05.00 (mw). N: 00.30. **Ann:** "R. Rio Mar de Manaus, Amazonas, Brasil, operando com suas estações ZYB20 e ZYB22 ondas medias e curtas 1480 e 9695kHz respectivamente". V. by QSL-card. Re. in P, E, Sp. Recordings accepted.
129) Ministerio de Trabalho, Av. Pres. Antonio Carlos 251, Rio de Janeiro. **Te:** 325399. **Ann:** "R. Maua do Rio de Janeiro, em 1130kHz, ondas médias pela PRH8, em ondas curtas pelas emissoras ZYZ24 9705kHz e ZYZ25, 11885kHz". V. by letter. Rp. Recordings accepted.
130) Rua 7 de Setembro 1123, Porto Alegre, RGS. **Te:** 5177. **Cable:** Radiofar. **L.P:** Dir. Gen: N. D. de Oliveira. **D.Prgr:** mw: 09.00-04.00. **Ann:** "R. Farroupilha, Porto Alegre, Brasil". V. by letter.
132) C.P. 62, Goiania, GO. **Te:** 6-6042. **Telex:** 285. **Cable:** Folhago. **Ann:** "Sintonizam R. Clube de Goiana, Rede Nacional de Emissoras Associadas, falando para o Brasil". V. by letter. Rp.
133) Rua Carlos Gomes 57, Salvador, BA. **Te:** 3-3521. **Cable:** Gremio. V. by letter. Rp.
134) C.P. 1053, Curitiba, PR. **L.P:** Dir: A. R. de Assis.
135) Rua 15 Novembro 707, Pelotas, RS.
136) C.P. 18, Ribeirão Preto, SP. **Te:** 2879. **L.P:** Dir. Gen: J. Laureano St. Mgr: M. Simoes Filho. Dir. Tec: W. L. Perin. **Ann:** "PRA7 R. Clube de Ribeirão Preto, onda média de 730kc e ZYR206, onda curta de 15415kc". V. by letter.
137) R.U.S.D. — I.T.A. São José dos Campos, SP. **Te:** 450. **L.P:** Dir. Gen: M. R. Cherubini. Dir. Tec: M. F. Gonzales. **Ann:** "Ouvem a ZYR232, RUSD, emissora construida dirigida e operada poe alunos do ITA, e que transmite na freq. de 17725kc, faixa de onda de 16 metros". V. by letter and QSL-card. Recordings accepted. Rp.

Medium Waves:
138) **R. Tambau,** João Pessôa 2, PB.
139) **R. Soc. Passos,** Passos, MG.
140) **R. Jornal Itabuna,** Praça João Pessôa 2, Itabuna, BA.
141) **R. Reporter,** Recife, PE.
142) **R. Atlantica,** C.P. 7, Santos, SP. **D.Prgr:** 09.00-05.00.
143) **R. Cataguazes,** Coronel Vieira 182, Cataguazes, MG.
144) **R. Dif. Brasileira,** Prata, MG.
145) **R. Londrina,** Londrina PR.
146) **R. Cruzeiro da Bahia,** Visconde do Rio Branco 30, Salvador, BA.
147) **R. Ouro Verde,** José Laureiro 370, Curitiba, PR.
149) **R. Dif. Bom Jesus,** Praça B. Constant, Cuiabá, MT.
150) **R. Dif. Triangulina,** Praça da Bandeira 16, Uberaba, MG.
151) **R. Dif. Cambará,** Cambará, PR.
152) **R. Dif. Sergipe,** J. P. Franco Aracaju, SE.
153) **R. Santamariense,** G. Martins, Santa Maria, RS.
154) **R. Dif. Portoalegrense,** Rua Uruguai 155, Porto Alegre, RS. V. by letter. Recordings accepted.
155) **R. Cabugi,** Praça Pedro II 1016, Natal, RN. **Te:** 1118. **D.Prgr:** 08.00-03.30. V. by letter. Recordings accepted. Rp.
156) **R. La Voz da Araraquarense,** Av. Teijo 5334, Araraquara.
157) **R. Soc. Mantiqueira,** C.P. 62, Cruzeiro, SP.
158) **R. São Francisco,** Anápolis, GO.
159) **R. Dif. de Limoeiro,** Limoeiro, PE.
160) **R. Soc. Ponta Grossa,** Ponta Grossa, PR.
161) **R. Soc Norte de Minas,** Montes Claros, MG. **D.Prgr:** 08.00-03.00. V. by QSL card or letter. Rp.
162) **R. Colorado,** Av. Gen. Osório 874, Ribeirão Preto, SP.
163) **R. Mineira,** São Paulo 516, Belo Horizonte, MG.
164) **R. Cl. de Lages,** C.P. 60, Lages, SC.
165) **R. Bela Vista,** O. Maciel 540, Uberlandia, MG.
166) **R. Cultura de Belo Horizonte,** Rua Coromandel 117, Belo Horizonte, MG.
167) **R. Dif. de Minas Gerais,** João Monlevade, MG.
168) **R. Nordeste,** Macau, RN.
169) **Soc. de R. Tuba,** C.P. 71, Tubarão, SC. **D.Prgr:** 08.55-02.00.
170) **Soc. R. Hora Certa,** Praça da Liberdade 61-7°, São Paulo.
171) **R. Marumby,** Praça Zacharias 80, Curitiba, PR. **D.Prgr:** 09.30-03.00.
172) **R. Emis. Veranense,** Veranópolis, RS.
173) **R. Marconi,** Santa Tereza 20, São Paulo, SP.
174) **R. Princesa,** Av. Marechal Floriano 38, Porto Alegre, RS.
175) **R. Mirador,** Av. A. Ramos 42, Rio Sul, SC.
176) **R. Universal,** Ave. Ana Costa 254, Santos, SP.
177) **R. Dif. Paraisense,** São Sebastião do Paraiso, MC.
178) **Universidade de Recife,** Recife, PE.
179) **E. Exelsior da Bahia,** G. Brito 14A, Salvador, BA.
180) **R. Jornal de Goiás,** Rua 24 No. 20, Goiânia, GO.
181) **R. Rural de Concordia,** C.P. 11, Concordia, SC.
182) **R. Cultura de Gravatai,** Cel. Vic. 456, Porto Alegre, RS.
183) **R. Emissora de Educação Rural,** Av. Otávio Lamartiné 603, Caicô, RN.
184) **R. Tabajara,** Av. Paraná 437, Londrina, PR.
185) **R. Mundial,** Av. Rio Branco 181, Rio, GB.
186) **R. Ital,** Andradas, Porto Alegre, RS.
186a) **R. Planalto,** Brasilia, DF.
187) **R. Nordeste,** Rua J. Pessoa 86, Natal, RN. **D.Prgr:** 08.00-03.00. V. by letter. Rp. Recordings accepted. **F.Pl:** Sw.
188) **R. Cult. de Rio Preto,** São José do Rio Preto, SP.
189) **R. Dif. Bento Gonçalves,** Bento Gonçalves, RS.
190) **R. Emissora Santana,** Praça Barão do Rio Branco 128, Ponta Grossa, PR.
191) **Radio Araguari,** Brasil Acioli 28, Araguari, MG.
192) **R. Libertade de Sergipe,** Aracaju, SE.
193) **R. Cultura de São Vicente,** Rua Riachuelo 66, São Vicente, SP. **D.Prgr:** 24 h.
194) **R. Cultura Paraná,** J. Loureiro 464, Curitiba, PR.
195) **R. Aratiba,** Erechim, s/n°, Aratiba, RS.
196) **R. Dif. de Alagoas,** P. Monteiro 108, Maceió.
197) **R. Passo Fundo,** C.P. 89, Passo Fundo, RS.
198) **R. Atalaia,** Av. São Paulo 167, Belo Horizonte, MG.
199) **R. Educadora do Nordeste Ltda,** Av. Dom José 783, Sobral, CE.
200) **R. Brejui Ltda,** Pres. J. Pessôa 26, Currais Novos, RN.
201) **R. Imembui S.A,** Aires 1980, Santa Maria, RS.
202) **R. Iracema de Fortaleza,** Santa Luzia 391, Juazeiro do Norte, CE.
203) **R. Difusora,** Praça Napolcão Morcira da Silva 155, Maringa, PR.
204) **R. Soc. de Juiz de Fora,** Barão de S. João Nepomuceno 197, Juiz de Fóra, MG.

206) **R. Colombo,** C.P. 2222, Curitiba, PR.
208) **R. Rio Preto,** Campos 2087, São José de Rio Preto, SP.
209) **R. Tupan de São Paulo,** Rua Catalão 48, São Paulo.
210) **R. Emis. Metropolitana,** Riachuelo 48, Rio de Janeiro, GB.
211) **R. Cl. de Sorocaba,** São Bento 253, Sorocaba, SP.
212) **R. Cultura de Feira de Santana,** F. Santana, BA.
213) **R. Cl. de Patos,** Patos, MG.
214) **R. Teofilo Otoni,** Teofilo Otoni, MG.
215) **R. Soc. de Friburgo,** Praça G. Vargas 74, Nova Friburgo.
216) **Universidade do Rio Grande do Sul,** Sarmento Leite 426, Porto Alegre, RS.
217) **R. Minas,** Rio de Janeiro 430, Belo Horizonte, MG.
218) **R. Dif. de Caruaru,** C.P. 111, Caruaru, PE.
219) **R. Piratininga de Votuporanga,** Votuporanga, SP.
220) **R. Educação Rural,** Praça V. A. Joaquim 39, Mossoró, RN.
221) **R. Independencia,** Av. Anhanguera 130, Goiânia, GO.
222) **R. Guarajá,** Travessa Frutuoso Guimarães 348, Belém, PA.
223) **R. Colon,** C.P. 25, Joinville, SC.
224) **R. Cl. de Conquista,** Praça Barão do Rio Branco 18, Vitoria da Conquista, BA.
225) **R. Cultura,** Américo Brasiliense 414, Ribeirão Preto, SP.
226) **R. Emis. do Nordeste,** Flores da Cunha, RS.
227) **R. Paiquerê,** Londrina, PR.
228) **R. Anita Garibaldi,** Florianópolis, SC.
229) **R. Tapajóz Ltda,** Barão do Cêrro Azul 874, São Josédos Pinhais, PR.
230) **R. Planalto de Araguari,** Afonso Pena 516, Araguari, MG.
231) **R. Esmeralda de Minas Gerais,** Coromandel 117, Belo Horizonte, MG.
232) **R. Continental,** Rua Andradas 1155, Porto Alegre, RS.
233) **R. Cometa,** Av. do Estado 3163, Sobreloja, São Paulo, SP. **V.** by letter. **Rp.**
234) **R. Dif. Vale do Itajai,** C.P. 61, Blumenau, SG.
235) **R. Atalaia,** Aracajú, SE.
236) **R. Relógio Musical,** Matias do Albuquerque 260, Recife.
238) **R. Presidente Wenceslau,** P. Wenceslau, SP.
239) **R. Cl. de Londrina,** Londrina, PR.
240) **R. Cairi,** C.P. 83, Campina Grande, PB.
241) **R. Dif. de Joinville,** Joinville, SC.
242) **R. Pato Branco,** Av. Pres. Vargas, Pato Branco, PR.
243) **R. Dia. de Mossoró,** A. Fernandes 259, Mossoró, RN.
244) **R. Educadora de Campinas,** Av. F. Glicerio 957, Campinas, SP. **D.Prgr:** 08.00-05.00. **V.** by QSL-card or letter. **Rp.**
245) **R. Princesa do Jacui,** C.P. 69, Candelaria, RS.
246) **R. Municipal de Passo Fundo,** Passo Fundo, RS.
247) **R. Nazareth,** Belém, PA.
249) **R. Pampa,** G. Rosário, Porto Alegre, RS.
250) **R. Cachoeira de Itapemirim,** Sete de Setembro 2, Cachoeira de Itapemirim, ES.
251) **R. Baré,** Cuiabá, MT.
252) **R. Dif. do Garanhuns,** Garanhuns, PE.
253) **R. Sul Rio Grandense,** Erechin, RS.
254) **R. Dif. A Voz de Bagé,** C.P. 157, Bagé, RS.
255) **R. São Miguel,** Rua Santana 2676, Uruguaiana, RS.
256) **R. Dif. do Amazonas,** J. Sarmento 106, Manaus, AM.
257) **Soc. Ubaense,** Uba, MG.
258) **R. Dif. Guarapuava,** C.P. 13, Guarapuava, PR.
259) **R. Cl. Hertz,** Marechal Deodoro 220, Franca, SP.
260) **R. Alvorada,** Av. W3. Brasilia, DF. (Reported on 1243kHz).
261) **R. Tupanci,** 15 de Novembro 717, Pelotas, RS.
262) **R. Presidente Wenceslau,** Av. Newton Prado, Pres. Prudente.
263) **R. Cultura,** C.P. 336, Joinville, SC. **D.Prgr:** 08.00-04.00.
264) **R. Platina,** C.P. 110, Ituintaba, MG.
266) **R. Chavantes,** Praçz da Liberdade 13, Ipameri, GO.
267) **R. Cl. Pontagrossence,** C.P. 114, Ponta Grossa, PR.
268) **R. America,** Rua 14 de Julho 1482, Campo Grande, MT. **L.P:** Mgr: A. Guerra. **D.Prgr:** 08.30-03.00.
269) **R. Independencia, B,** Campos 3180, São José do Rio Preto.
270) **R. Atalaia,** C.P. 1260, Londrina, PR.
271) **R. Cl. do Piaui,** Teresina, PI.
272) **R. Ibituruna,** Av. Minas Gerais, 976, Governador Valadares, MG.
273) **R. Cultura de Maringa,** 15 de Novembro 391, Maringa, PR.
274) **R. Carijós,** Praça G. Vargas 81, Conselheiro Lafaite, MG. **D.Prgr:** 09.00-02.30.
275) **R. Cl. Metropole,** Av. Pres. Roosevelt 1406, Porto Alegre.
276) **R. Cultura de Cuiaba,** Cuiaba, MT.
277) **R. Atalaia,** Av. D. de Caixas 350, Maringá, PR.
278) **R. Cinquentenario,** Rua João Galo 94, Birigui, SP.
279) **R. Direceu de Marilia,** Dom Pedro 156, Marilia, SP.
280) **R. Dif. Cultura de Pelotas,** C.P. 268, Pelotas, RS.
281) **R. Progreso,** Maceió.
282) **R. Herval do Oeste Ltda,** C.P. 370, Joaçaba, SC. **D.Prgr:** 09.00-02.00. **V.** by QSL-card. Recordings accepted.
283) **R. Cultura de Piaui,** Teresina, PI.
284) **R. Dif. A Voz da Amazonia,** Manaus, AM.
285) **R. Cruzeiro do Sul,** Rua B. do Rio Branco 167, Curitiba.
286) **R. Operaria de Araxa,** Maciel 226, Araxa, MG.
287) **R. Diamantina,** Diamantina, MG.
288) **Soc. Educadora de Itajuba,** Itajuba, MG.
289) **R. Cl. de Blumenau,** C.P. 61, Blumenau, SC.
290) **Empresa Jornal do Comercio,** Triumfo, PE.
291) **R. Dif. Liberal,** Santo Antonio 491, Belém, PA.
292) **R. Arapuan,** D. de Caxias 550, João Pessôa, PA. (reported on 1335kHz).
293) **R. Gurupi,** Av. Pena 46, São Luis, MA.
294) **R. Soc. Oeste Catarinense,** Chapecó, SC.
295) **R. Arapuan,** Praça Aristides Lobo 22, João Pessôa, PB.
296) **R. Guarathan,** Dr. Bozano 1380, Santa Maria, RS.
297) **R. Dif. Soc. da Bahia,** C.P. 19, Itabuna, BA.
298) **R. Estadual,** Canoinhas, SC.
299) **R. Metropolitana Paulista,** Praça D. F. Santana 21, Mogi das Cruzes.
300) **R. Difusora,** Coronel P. Gonçalves, Mimoso do Sul, RS.
301) **R. Uirapuru de Fortaleza,** C.P. 740, Fortaleza, CE.
302) **R. Alvorada,** C.P. 10, Marau, RS. **D.Prgr:** 09.00-01.00. **V.** by letter.
303) **R. Independencia,** Rua Voluntaries da Patria 475, Curitiba. **D.Prgr:** 24 h.
304) **R. Cultura,** C.P. 173, Fernandópolis, SP. **D.Prgr:** 09.00-03.00.
305) **R. Continental do Recife,** Palma 167, Recife, PE.
306) **R. Emissora do Nordeste,** Av. Julio de Castilhos 1576, Caxias do Sul, RS.
307) **R. Industrial Paulista,** Rua Butanta 128, São Paulo.
308) **R. Tingui,** Piraquara, PR.
309) **R. Sul Fluminense,** C.P. 19, Barra Mansa, RS.
310) **R. Dif. de Pesqueira,** Av. Dr. Jm. de Brito 427, Pesqueira, PE. **D.Prgr:** 08.55-03.00. **V.** by letter. Recordings accepted.
311) **R. Jornal de Minas,** Belo Horizonte, MG.
312) **R. Porto Alegre,** Porto Alegre, RS.
313) **R. Jornal,** Av. J. Bonifacio 17, Itaperminga, BA.
314) **R. Educadora de Cariri,** Cariri, CE.
315) **R. Dif. de Rio Preto,** São José do Rio Preto, SP.
316) **R. Difusora de Poços de Caldas,** Praça P. Sanchez 115, Poços de Caldas, MG.
317) **R. Emissora Cultural,** Rio do Sul, SC.
318) **R. Cruzeiro do Sul,** Av. Senador S. Naves 155, Londrina.
319) **R. América,** Rua Consolação 166, São Paulo, SP.
320) **R. Verdes Mares,** C.P. 851, Fortaleza, CE.
321) **R. Imbiara de Araxá,** C.P. 19, Araxá, MG.
322) **R. Triunfo,** Cel. Vic. 456, Porto Alegre, RS.
323) **R. Colonial,** Panambi, RS.
324) **R. Vera Cruz,** Rua Buenos Aires 168, Rio, GB.
325) **R. Cl. de Teresina,** Teresina, PI.
326) **R. Cl. de Tupá,** C.P. 39, Tupá, SP.
327) **R. Jornal de Sergipe,** Av. Rio Branco 20, Aracajú, SE.
329) **R. Cl. de Santos,** J. Cabalero 60, Santos, SP.
330) **R. Caturite,** Peregrino de Carvalho 321, Campina Grande.
331) **Campos Dif.** Rua Carlos Lacerda 52, Campos RJ. **D.Prgr:** 09.00-03.00.
332) **R. Coroados,** C.P. 33, Curitibanos, SC.
333) **R. Assunção,** Jales, SP.
334) **R. Iracema de Fortaleza,** Praça M. Linhares, Sobral, CE.
335) **R. Cl. de Rio Claro,** Treis 1423, Rio Claro, SP.
337) **R. Emis. Convencã do Itu,** F. Piexoto 1386, Itu, SP.
338) **R. Soc. Muriaé,** Praça J. Pinheiro 10, Muriaé, MG.
339) **R. Espinhares de Patos,** Rua Barbosa 515, Patos, PB.
340) **R. Cl. Epitacio,** Pres. Epitacio, SP.
341) **R. Progresso,** Av. P. A. Filho, s/n°, Novo Hamburgo, RS.
342) **R. Cultura de Volta Redondo,** Volta Redondo, RJ.
343) **R. Araripé,** Nelson de Asencar 90, Crato, CE.
344) **R. Difusora,** Rua Trebe de Junho 899, Corumbá, MT.
345) **Soc. Emiss. Continental,** Treze de Maio 49, Campos, RJ.
347) **R. Reporter,** C.P. 73, Ijui, RS.
348) **R. Dif. de Floriana,** Floriano, PI.
349) **R. Difusora,** C.P. 410, Assis, SP.
350) **R. Jaguarialva,** Vila N. Sa. de Fátima, Jaguariaiva, PR.
351) **R. Upacarai,** Coronel Demétrio 71, Dom Pedrito, RS.
353) **R. Novo Horizonte,** C.P.5, Novo Horizonte, SP.
354) **R. Nordeste,** Nova Cruz, RN.
355) **R. Cultura de Santo Amaro,** Santo Amaro, BA.

Authorized Stations:

R. Educadora, Coronel Fabriciano, MG (1350kHz–1kW) — **R. Progresso,** Juazeiro do Norte, CE (1kW) — **R. Alvorada de Parintins,** Parintins, AM (1kW) — **R. Paulista,** Recife, PE (10/1kW) — **R. Cacique de São Caetano,** Santos, SP (1kW) — **R. Nossa Senhora de Fátima,** Vacaria RS (5kW).

CHILE

L.T: GMT —4 h — **Pr.L:** Spanish.

ASOCIACION DE RADIODIFUSORAS DE CHILE (ARCHI)

ADDR: Cas. 10476, Santiago de Chile. **Te:** 34509. **Cable:** Archi.
STATIONS: SW: Call letter CE are used for all zones.
MW: Call letters CA, CC and CD indicate: A = No. Zone, B = Central Zone, C = So. Zone and D = Antarctic Zone. The figures indicate the freq. in kHz minus one cipher, f. inst. CB82 = Central Zone 820kHz. St's not associated with ARCHI: 9, 11, 14, 30, 31, 33, 39, 52, 66, 73, 85, 89, 91, 92, 98, 112, 116, 117, 118.
Short Waves: Location: Santiago exc. where indicated.

	Call	kHz	m	kW	Name & h of tr.
1)	CE490	4908	61.14	1	Transandina, Los Andes
2)	CE595	5955	50.39	1	R. Nuevo Mundo: 10.30-04.00
3)	CE597	5975	50.21	10	Emis. Presidente, Balmaceda: 10.00–05.00
4)	CE601	6010	49.92	0.25	R. Norte, Antofagasta: 11.00–04.50
5)	CE603	6030	49.75	1	R. Mineria, Talca: 11.00–04.00
6)	CE605	6050	49.59	0.5	R. Libertad, Antofagasta: 11.00–07.00
7)	CE605	6050	49.59		R. Tucapel, Cãnete
8)	CE607	6075	49.38	5	Soc. Nac. de Mineria: 11.00–05.30
9)	CE610	6100	49.18	1	R. Calama: 11.00–04.00
10)	CE611	6115	49.06	5	Soc. Nac. de Agricultura: 11.00–05.00
11)	CE613	6135	48.90	10	R. Universidad de Concepción: 12.00–04.00
12)	CE615	6150	48.78	5	La Voz de Chile: 11.00–04.30
13)	CE617	6170	48.62		R. Universidad Técnica del Estado: 17.00–04.00
14)	CE619	6190	48.47	10	Corp. Chilena de Broadcasting: 11.00–04.00

Chile

	Call	kHz	m	kW	Name & h of tr.
14)	CE951	9510	31.55	1	Corp. Chilena de Broadcasting: 11.00-04.00
15)	CE953	9530	31.48	1	R. El Morro, Arica: 11.00-05.00
16)	CE955	9550	31.41	1	R. Valentin Letelier, Valparaiso: Mon-Fri 16.30–18.30, 23.00–03.00, Sat-Sun: 20.00–03.00
17)	CE957	9570	31.35	10	R. Portales: 11.00–05.00
3)	CE959	9590	31.28	1	R. Pres. Balmaceda: 10.00–05.00
18)	CE965	9650	31.09	1	R. Yungay: 11.00–23.00
12)	CE969	9690	30.96	1	La Voz de Chile: 11.00–04.30
8)	CE975	9750	30.77	5	Soc. Nac. de Mineria: 11.00–05.30
2)	CE1174	11740	25.55	5	R. Nuevo Mundo: 11.00–05.30
10)	CE1180	11805	25.41	5	Soc. Nac. de Agricultura: 11.00–05.00
19)	CE1185	11850	25.32	1	R. Cruz del Sur: 10.45–04.10
12)	CE1190	11900	25.21	5	La Voz de Chile, Valparaiso: 10.30–04.30
8)	CE1196	11960	25.08	5	Soc. Nac. de Mineria: 11.00–05.30
8)	CE1511	*15115	19.85	5	Soc. Nac. de Mineria
14)	CE1515	15150	29.80	1	Corp. Chilena Broadcasting: 11.00–04.00
10)	CE1530	*15300	19.61	5	Soc. Nac. de Agricultura.

Medium Waves: * = also on shortwave.

	Call	kHz	kW		Call	kHz	kW
20)	CB54	540	1	69)	CB125	1250	1
21)	CD54	540	1	15)	CA126	*1260	10
10)	CB57	*570	50	70)	CD125	1250	1
22)	CA59	590	1	71)	CC126	1260	1
23)	CC59	590	1	4)	CA127	*1270	1
24)	CA62	620	1	8)	CB127	*1270	10
25)	CC62	620	10	3)	CB130	*1300	10
26)	CB63	630	1	72)	CA132	1320	0.25
27)	CA63	630	0.1	73)	CC132	1320	10
28)	CB63	630	1	74)	CB133	1330	2
29)	CC63	630		75)	CC133	1330	1
30)	CA64	640	1	76)	CD133	1330	1
31)	CD64	640	10	77)	CA134	1340	0.25
32)	CB66	660	50	78)	CB134	1340	1
11)	CC68	*680	10	79)	CB135	1350	1
33)	CB69	690	10	80)	CD135	1350	1
12)	CB73	*730	10	81)	CD135B	1350	1
12)	CB76	*760	75	82)	CC135	1350	
6)	CA78	*780	1	83)	CA136	1360	1
34)	CB78	780	1	11)	CC136	*1360	10
35)	CD78	780	1	19)	CB138	*1380	50
36)	CA82	820	0.25	84)	CA140	1400	0.25
37)	CB82	820	1	85)	CC140	1400	1
38)	CC82	820	1	86)	CB141	1410	1
39)	CD82	820	1	87)	CD141	1410	0.1
40)	CB84	840	10	88)	CA142	1420	0.1
41)	CD84	840	1	89)	CB142	1420	1
42)	CB89	890	5	90)	CC142	1420	0.25
43)	CC89	890	1	91)	CC143	1430	1
44)	CD89	890	1	92)	CD143	1430	1
45)	CC90	900	1	93)	CB144	1440	
2)	CB93	*930	10	94)	CB145	1450	0.25
46)	CB96	960	10	95)	CD145	1450	0.25
9)	CA97	*970	1	96)	CD145B	1450	2.5
47)	CB97	970	1	97)	CA146	1460	
48)	CC97	970	1	18)	CB146	*1460	1
49)	CD97	970	1	98)	CC146	1460	
50)	CA101	1010	0.25	99)	CB147	1470	1
51)	CB101	1010	10	100)	CC148	1480	0.25
52)	CD101	1010	1	101)	CD148	1480	1
16)	CB103	*1030	1	102)	CB149	1490	1
53)	CC103	1030	0.1	103)	CA150	1500	10
54)	CD103	1030	1	104)	CB150	1500	0.5
55)	CD103	1030		105)	CC151	1510	1
56)	CD103	1030	0.1	106)	CC152	1520	1
8)	CB106	*1060	100	107)	CA153	1530	
57)	CD108	1080	1	108)	CB153	1530	1
58)	CA109	1090	1	109)	CC153	1530	1
59)	CA109	1090		110)	CC154	1540	0.25
5)	CC109	*1090	1	111)	CB155	1550	0.1
60)	CD109	1090	1	112)	CC155	1550	0.25
61)	CB111	1110	1	113)	CD155	1550	0.25
62)	CD111	1110	1.5	114)	CB156	1560	0.1
63)	CD112	1120		115)	CC156	1560	0.1
14)	CB114	*1140	50	116)	CD156	1560	0.1
17)	CB118	*1180	50	1)	CB157	*1570	0.25
64)	CA120	1200	1	117)	CC158	1580	
10)	CD120	1200	1	118)	CB159	1590	0.25
13)	CB121	*1210	1	119)	CC159	1590	0.25
65)	CA124	1240	1	120)	CB160	1600	
66)	CB124	1240	1	121)	CB160A	1600	0.25
67)	CC124	1240	1	122)	CC160	1600	
68)	CA125	1250	1	123)	CC160B	1600	0.25

Short Waves:

1) Cas. 307, Los Andes.
2) Cas. 9255, Santiago. **Te:** 382392. **Cable:** R. Nuevo Mundo. **V.** by QSL-card and letter. Re. in Sp. E.
3) Cas. 13650, Santiago. **Te:** 88720. **Cable:** Prebal. **Int-Sig:** Gong with notes from "Los Copihues Rojos"—**V.** by QSL-card.
4) Cas. 556, Antofagasta. **Te:** 383. **V.** by QSL-card. Recordings accepted Prgr. sched. free.
5) Cas. 21-D, Talca. **Te:** 33076.
6) Cas. 457, Antofagasta.
7) Cañete.
8) CB106: Cas. 2626, Santiago. **Te:** 381341. **Cable:** Radiomineria. CB127: Cas. 337, Vina del Mar. **Ann:** "Santiago de Chile R. Soc. Nac. de Mineria". **Int-Sig:** Gong. **V.** by QSL-card, R. in E. or Sp.
9) Cas. 1, Calama. **Te:** 10. **V.** by letter. Recordings accepted.
10) CB57: Cas. 40-D, Santiago. **Te:** 64660. CD120: Cas. 327, Los Angeles. **Te:** 517. **L.P:** CB57: Dir: E. Echeverria M. CB120: Dir: S. Jimenez. **D.Prgr:** **N:** 11.30, 17.30, 01.30. Also on the h from 13.00. **Ann:** "CB57 R. Agricultura de Santiago, Chile, sus estaciones en onda corta en 25 y 49m . . ." **V.** by QSL-card or letter. Recordings accepted.
11) Cas. 2337, Concepcion. **Te:** 23207. **Ann:** "Transmite R. Universidad de Concepcion CC68 en Onda Larga, CE613 en Onda Corta en la Banda 49 metros y con su equipo de FM en 95.1Mc, desde la Ciudad Universitaria, Concepcion, Chile". **V.** by QSL-card and letter. Re. in E. and Sp.
12) CB76/CE615/CE970: Cas. 13130, Santiago. **Te:** 61685. CB73/CE1190: Cas. 37V, Valparaiso. **Te:** 56889. **Cable:** Vitalradio. **Ann:** "Emisoras La Voz de Chile, La Cooperativa". **Int-Sig:** Gong with central theme of "Pomp and Circumstance". **V.** by letter. Recordings accepted.
13) Av. Ecuador 3469, Santiago. **Te:** 92981.
14) Cas. 244V, Santiago. **Te:** 63674. **L.P:** Dir: S. Fernandez. **D.Prgr:** **N:** Every h on the h. **Ann:** "Transmite CB114 R. Corporación, Santiago de Chile, R. Corporación en el mejor lugar, su hogar".
15) Cas. 463, Arica, **Te:** 1402. **V.** by letter.
16) Box 211V, Valparaiso. **V.** by QSL-card or letter. Re. in Sp. or E.
17) CB118/CE956: Cas. 13962, Santiago. **Te:** 68279. CB59: Cas. 98V, Valparaiso. CC108: Cas. 21-D, Talca. **L.P:** Dir: R. Tarud S. Dir. Tec: A. Hasbun A. **D.Prgr:** **N:** 11.30, 12.00, 13.00, 14.00, 15.00, 16.00, 19.00, 20.00, 21.00, 23.00, 04.57.
18) Cas. 3041, Santiago. **Te:** 31583. **Ann:** "Aqui Emisoras Yungay con tres frecuencias para su mejor sintonia". **Int-Sig:** First movements of the song "Donde el Azul de la Noche encuentra el Ove del Dia". **V.** by letter. Recordings accepted. Rp.
19) Plaza Bulnes 47, Santiago. **Te:** 62055. **N:** 12.00, 14.00, 16.00, 17.45, 20.00, 22.00, 00.00, 01.45. **Ann:** "Estas son las emisoras Cruz del Sur, Santiago de Chile, que transmiten en CB138, onda larga, CE1185, onda corta banda de 25m . . .". **V.** by letter. Recordings accepted.

Medium Waves:

Generally 11.00-04.00 exc. where indicated.
20) **R. Ignacio Serrano,** Cas 110, Melipilla.
21) **R. Sur,** Cas. 60-D, Valdivia.
22) **R. Mineria,** Cas. 1060, Antofagasta.
23) **R. Condor,** Cas. 486, Concepcion.
24) **R. Norte Verdes,** Cas. 252, Ovalle.
25) **Nueva R. El Sur,** Cas. 482, Concepcion.
26) **R.I.EM,** Cas. 224V, Santiago.
27) **R. Chañaral,** Comercio 53, Chañaral.
28) **R. Pres. Prieto.** Cas. 37V, Valparaiso.
29) **R. Constitucion,** Constitucion.
30) **R.Esmeralda,** Cas. 209, Iquique.
31) **R. Cautin,** Cas. 40-D, Temuco.
32) **Nueva R. Chilena,** Ca. Compañia 1264, Santiago.
33) **R. Santiago,** Cas. 10195, Santiago.
34) **R. Caupolican,** Cas. 506, Valparaiso.
35) **R. La Frontera,** Cas. 516, Temuco.
36) **R. Pampa,** P. de Valdivia.
37) **R. del Pacifico,** Cas. 3591, Santiago.
38) **R. Almirante Latorre,** Cas. 358, Talcahuano.
39) **R. Concordia,** Cas. 119, La Union.
40) **R. Portales,** Cas. 89-V, Valparaiso.
41) **R. Llaima,** Yungay 154, Curacautin.
42) **R. Bulnes,** Cas. 1555, Santiago.
43) **R. Interamericana,** Cas. 97, Concepcion.
44) **R. Polar,** Cas. 13-D, Punta Arenas.
45) **R. Nuble,** Cas. 267, Chillan.
46) **R. Carrera,** Tenderini 115, Santiago.
47) **R. Soc. Nac. de Agricultura,** Cas. 90, Valparaiso.
48) **R. Lautaro,** Cas. 214, Talca.
49) **R. Patagonia,** Cas. 53, Coyhaique.
50) **R. Coya,** Maria Elena.
51) **R. Magallanes,** Cas. 13940, Santiago.
52) **R. Llanquihue,** Cas. 356, Puerto Montt.
53) **R. El Roble,** Cas. 37, Parral.
54) **R. Chiloe,** Cas. 106, Castro. **Te:** 260. **D.Prgr:** 11.55-04.00. **V.** by letter.
55) **R. Payne,** Cas. 97, Puerto Natales.
56) **R. Malleco,** Cas. 204. Victoria.
57) **R. Camilo Henriquez,** Cas. 28-A, Valdivia.
58) **R. La Portada,** Vas. 410, Antofagasta.
59) **R. Occidente,** Cordoves 561, La Serana.
60) **R. Mineria,** Cas. 40-D, Punta Arenas.
61) **R. Recreo,** Cas. 596, Viña del Mar.
62) **R. Sago,** Cas. 35-0, Osorno.
63) **R. General Merchant,** Cas. 112, Puerto Aysen.
64) **R. Blanco Encalada,** Cas. 2001, Tocopilla.
65) **R. del Salitre,** Cas. 7-D, Iquique.
66) **R. Vina del Mar,** Cas. 534, Viña del Mar.
67) **R. Talca,** 5 Oriente, 1 Norte, Talca.
68) **R. La Serena,** Cas. 118, La Serena.
69) **R. Andres Bello,** Mac Iver 142, Santiago.
70) **Universitario Tecnico del Estado,** Valdivia.
71) **R. Condell,** Cas. 492, Curico
72) **R. Estrella del Norte,** Cas. 13, Vallenar.
73) **R. Simon Bolivar,** Cas. 318, Concepcion.
74) **R. Prat,** 10310, Santiago.
75) **R. La Discusion,** Cas. 14-D, Chillan.
76) **R. Vicente Perez Rosales,** San Filipe 80, Puerto Montt.
77) **R. Toco,** Cas. 808, Tocopillo.
78) **R. Porteña,** Cas. 887, Valparaiso.

79) **R. Panamericana,** Agustinas 975, Santiago.
80) **La Voz del Sur,** Cas. 53, Punta Arenas. **Te:** 22253.
81) **R. Pudeto,** Edif. Yuri, Ancud.
82) **R. Imperial,** Cas. 370, Temuco.
83) **R. Riquelme,** Cas. 92, Coquimbo.
84) **R. Atacama,** Cas. 57, Copiapo.
85) **R. Araucania,** Cas. 462, Concepcion.
86) **R. Valparaiso,** Cas. 1096, Valparaiso.
87) **R. Loncoche,** Cas. 61, Loncoche.
88) **R. Alonso de Ercilla,** Cas. 369, Illapel.
89) **R. Nacional,** Cas. 9987, Santiago.
90) **R. Maule,** Cas. 196, Cauquenes.
91) **R. El Libertador,** Cas. 102, Rancagua.
92) **R. Eleutario Ramirez,** Ramirez 652, Osorno.
93) **R. Sergento Candelaria,** Ahumada 131, Santiago.
94) **Univ. Tecnica Santa Maria,** Cas. 110-V, Valparaiso.
95) **R. Arauco,** Cas. 6, Angol.
96) **R. Turismo,** Puerto Varas.
97) **R. Antofagasta,** Cas. 439, Antofagasta.
98) **R. Talcahuano,** Anibal Pinto 399, Talcahuano.
99) **R. Sargento Aldea,** Cas. 38, San Antonio.
100) **R. Regional,** Cas. 132, Curico.
101) **R. Baquedano,** Cas. 758, Valdivia. **Te:** 1510.
102) **R. La Verdad,** Los Serenos 326, Santiago.
103) **R. Patricio Lynch,** Vivar 489, Iquique.
104) **R. Sudamerica,** Cas. 1346, Santiago.
105) **R. Rancagua,** Cas. 21, Rancagua. **Te:** 462.
106) **R. Soberania,** Cas. 11-D, Linares. **Te:** 277.
107) **R. Diego de Almeyda,** Pueblo Hundido.
108) **R. Chacabuco,** Cas. 370, Quillota.
109) **R. El Carbon,** Cas. 66, Lota.
110) **R. Centenario,** Cas. 18, San Javier. **Te:** 29.
111) **R. Provincial,** Cas. 73, Putaendo.
112) **R. Manue Rodriquez,** Cas. 147, San Fernando.
113) **R. Regional,** Cas. 293, Traiguen.
114) **R. Limache,** Cas. 92, Limache.
115) **R. Central,** Cas. 202, San Carlos.
116) **R. Jeronimo de Alderete,** Cas. 351, Villarrica.
117) **R. Colchagua,** Santa Cruz.
118) **R. Aconcagua,** Cas. 100, San Felipe.
119) **R. Rengo,** Edif. Municipal, Rengo.
120) **R. Reloj,** Valparaiso.
121) **R. Chronos,** Plaza Bulnes 79, Santiago.
122) **R. Horario,** Concepcion.
123) **R. Talca,** Talca.

COLOMBIA

L.T: GMT -- 5 h — **Pr.L:** Spanish.
Short Waves: Call: HJ— —, * = inactive; 11.00-05.00 exc. where indicated.

	Call	kHz	m	kW	Name, h of tr.
2)	GO	*3250	92.31	10	Acción Cultural Popular, Sutatenza
2)	GW	*3260	92.02	10	Acción Cultural Popular, Sutatenza
1)	AB	*3290	91.19	20	R. Nacional, Bogotá
3)	IV	*4755	63.09	2.5	Reina de Colombia, Chiquinquirá
4)	KW	4775	62.83	1	La Voz de María, Bogotá
5)	LW	4785	62.70	1	Ecos del Combeima, Ibaqué: 11.00-04.00
6)	CN	4795	62.57	1	R. Reloj, Bogota: 24 h
7)	HC	4825	62.18	1	R. Nariño, Pasto: 10.00-04.00
8)	AM	4835	62.05	1	R. Buenaventura, Buenaventura
9)	GF	4845	61.92	1	R. Bucaramanga, Bucaramanga: 11.00-04.00
10)	FV	4855	61.79	1	R. Neiva, Neiva: 10.00-04.00
11)	DE	4875	61.54	1	R. Villavicencio, Villavicencio
12)	IG	4885	61.41	1	Ondas del Meta, Villavicencio
13)	CH	*4895	61.29	1	La Voz de la Victor, Bogotá
14)	AG	*4905	61.16	1	Emisora Atlántico, Barranquilla
15)	DH	4945	60.67	1	R. Colosal, Neiva: 24 h
1)	CQ	4955	60.54	20	R. Nacional, Bogotá: 11.35-04.25
16)	AF	4965	60.42	2.5	R. Santa Fé, Bogotá: 24 h
17)	JG	4975	60.30	1	R. Internacional, Cúcuta
18)	FW	5020	59.76	1	Transmisora Caldas, Manizales: 24 h
19)	IC	*5035	59.58	1	La Voz de Caquetá, Florencia
20)	DW	5050	59.41	1	La Voz de Medellín, Medellín: 10.30-05.00
2)	CW	*5060	59.29	25	Acción Cultural Popular, Sutatenza
2)	GC	5075	59.11	25	Acción Cultural Popular, Sutatenza
2)	GG	5095	58.88	50	Acción Cultural Popular, Sutatenza
21)	CF	5960	50.34	1	La Voz de Bogotá: 11.00-04.00
22)	VN	5970	50.25	5	R. Horizonte, Bogotá: 12.00-03.00
23)	LY	5980	50.17	10	La Voz del Rio Grande, Medellín: 13.00-04.00
24)	HA	5985	50.13	10	Transmisora de la Independencia, Tunja: 11.00-19.00, 22.00-03.00
25)	FL	5995	50.04	1	La Voz del Pueblo, Pereira: 12.00-04.00
26)	FK	6010	49.92	1	La Voz Amiga, Pereira: 12.00-04.00
1)	ZJ	*6030	49.75	50	R. Nacional, Bogotá
27)	LB	6040	49.67	10	La Voz del Tolima, Ibagué: 12.00-05.00
28)	EX	6055	49.55	5	R. Pacifico, Cali:: 11.00-05.00
2)	CT	6075	49.38	10	Acción Cultural Popular: Sutatenza: 11.00-14.00, 20.00-04.00
29)	DX	6085	49.30	1	Ecos de Pasto, Pasto: 13.00-05.00
30)	IW	6095	49.22	1	La Voz del Centro, Espinal
31)	NV	6105	49.14	5	R. Visión, Medellín: 11.00-05.00
32)	IQ	6115	49.06	1	La Voz del Llano, Villavicencio: 13.00-05.00
33)	KE	6125	48.98	1	R. Continental, Bogotá: 11.00-05.00
34)	NE	6140	48.86	1	R. El Sol, Cali: 12.00-05.00
35)	EQ	6145	48.82	1	La Voz del Cauca, Popayán: 13.00-04.00
36)	KJ	6160	48.70	10	Émisora Nueva Granada, Bogotá: 11.00-05.00
37)	DD	6170	48.62	1	R. Valledupar, Valledupar
1)	WT	6183	48.52	50	R. Nacional, Bogotá: 11.35-04.25
38)	EZ	6195	48.43	1	La Voz de Cali, Cali: 12.00-05.00
1)	ZM	*9635	31.14	50	R. Nacional, Bogotá
2)	GO	*9655	31.07	50	Acción Cultural Popular, Sutatenza
1)	ZN	*11795	25.43	50	R. Nacional, Bogotá
1)	ZO	*11895	25.22	50	R. Nacional, Bogotá
2)	GZ	*11900	25.21	10	Acción Cultural Popular, Sutatenza
2)	GL	*15235	19.69	10	Acción Cultural Popular, Sutatenza
1)	ZP	15335	19.56	50	R. Nacional, Bogotá: irr
1)	ZQ	*17865	16.79	50	R. Nacional, Bogotá
1)	ZR	*21510	13.95	50	R. Nacional, Bogotá
1)	ZS	*25750	11.65	50	R. Nacional, Bogotá

N.B: Several channels are being used irregularly.

Medium Waves: Call: HJ— —, ° = Short Wave, * = inactive.

	Call	kHz	kW		Call	kHz	kW
22)	KA	°540	10	86)	JC	1130	1
1)	HF	*550	10	87)	AC	1130	10
24)	GS	°560	10	88)	CO	1130	5
1)	ND	°570	100	89)	DL	1140	5
1)	HG	*580	50	90)	EV	1140	1
2)	CR	590	10	91)	NS	1140	1
39)	HZ	600	25	92)	TR	1140	2.5
36)	KL	°610	25	93)	NH	1150	5
40)	EL	620	10	94)	BT	1150	1
41)	FD	630	20	95)	FI	1150	1
42)	BJ	640	10	2)	GJ	1150	1
43)	JX	650	10	96)	AZ	1160	5
44)	JM	660	10	97)	BL	1160	2.5
45)	NX	670	10	98)	CK	1160	10
46)	AQ	680	10	99)	ZV	1160	5
47)	CZ	690	10	15)	DP	°1170	10
2)	CX	700	10	100)	DT	1170	1
5)	FT	°710	10	101)	JE	1170	1
48)	AN	720	10	102)	FX	1180	1
49)	CU	730	10	103)	GK	1180	10
29)	HB	°740	10	104)	CT	1190	5
50)	DK	750	50	105)	CV	1190	10
51)	AJ	760	10	106)	EQ	1190	1
52)	KH	770	30	107)	DF	1190	1
53)	ZG	780	30	32)	BX	°1200	2
54)	DC	790	10	108)	HJ	1200	1
2)	GY	810	10	109)	CD	1200	1
55)	BW	810	10	110)	IJ	1200	1
56)	ED	820	50	111)	NF	1200	1
31)	DM	°830	10	17)	BE	°1210	10
57)	BI	840	10	26)	FF	°1210	10
58)	KC	850	50	112)	AV	1220	10
59)	EP	860	10	113)	FV	1220	10
27)	LA	°870	10	114)	KR	1220	10
9)	GE	°880	10	115)	NM	1220	2.5
21)	CE	°890	10	10)	FP	°1230	10
38)	EY	°900	10	116)	IL	1230	5
23)	DO	°910	25	117)	JQ	1230	
60)	AE	920	10	118)	LK	1230	1
33)	CS	°930	10	118a)	FG	1240	5
61)	GB	940	10	119)	GN	1240	5
62)	FN	950	10	9)	JA	°1240	1
2)	HN	960	10	120)	AO	1250	1
13)	CI	°970	10	121)	CA	1250	1
34)	ES	°980	30	122)	FM	1250	1
20)	DB	°990	10	123)	HS	1250	1
1)	BU	*1000	100	124)	HZ	1250	1
63)	BN	1010	10	125)	DA	1260	1
64)	CC	1010	10	126)	DV	1260	1
65)	DQ	1020	5	127)	ET	1260	2
66)	AI	1020	5	128)	HU	1260	1
25)	FQ	°1030	10	129)	NO	1260	1
67)	DJ	1030	10	130)	OH	1260	1
28)	ER	°1030	10	131)	KZ	1270	1
68)	CJ	1040	5	132)	TX	1270	1
69)	GX	1040	1	133)	AR	1270	1
37)	BB	°1050	2	134)	EB	1280	1
70)	DR	1050	1	135)	LR	1280	1
71)	NC	1050	1	136)	KN	1280	10
72)	NG	1050	2.5	137)	NQ	1280	1
18)	FJ	°1060	1	138)	CM	1290	1
73)	GU	1060	1	139)	EC	1290	1
14)	AH	°1070	10	140)	HI	1290	10
16)	CG	°1070	10	11)	IA	°1290	1
74)	DZ	1070	10	141)	KY	1290	1
75)	AW	1080	10	142)	OI	1290	1
76)	JB	1080	10	143)	TH	1290	1
77)	BC	1090	10	144)	IR	1300	1
78)	FM	1090	10	145)	LD	1300	1
79)	IH	1090	1	146)	NB	1300	1
80)	AT	1100	1	147)	OG	1300	1
6)	CN	°1100	10	148)	AK	1310	2.5
82)	DI	1110	10	149)	DG	1310	1
83)	EW	1110	1	150)	JZ	1310	1
30)	FZ	°1110	10	151)	FR	1320	1
84)	GH	1120	5	152)	HT	1320	1
85)	KQ	1120	10	153)	NK	1320	1

Colombia

	Call	kHz	kW		Call	kHz	kW
154)	TA	1320	1	200)	NL	1450	1
155)	VT	1320	1	201)	TY	1450	1
156)	AD	1330	1	202)	AL	1460	5
157)	FE	1330	5	203)	BA	1460	1
158)	MQ	1330	1	204)	BQ	1460	1
159)	BF	1340	1	205)	JW	1460	1
160)	FA	1340	1	206)	ZU	1460	1
161)	FB	1340	1	207)	IM	1470	1
162)	HY	1340	1	208)	NT	1470	1
7)	NA	°1340	1	209)	BM	1470	1
163)	DS	1350	1	210)	FC	1480	1
164)	EN	1350	1	211)	TZ	1480	1
165)	FY	1350	1	212)	DH	1480	1
166)	HL	1350	1	213)	BS	1490	1
167)	HW	1350	2	214)	AY	1490	1
12)	IG	1350	1	215)	TQ	1490	
168)	FH	1360	1	216)	CL	1500	1
169)	GI	1360	1	217)	GA	1500	1
170)	NI	1360	1	218)	LJ	1500	1
171)	BD	1370	1	219)	TW	1500	1
172)	BO	1370	1	220)	ZH	1500	1
35)	EA	°1370	0.75	221)	HX	1510	1
173)	KX	1370	1	222)	ZA	1510	1
174)	EJ	1380	1	223)	LI	1520	5
175)	LG	1380	1	224)	LQ	1520	2.5
176)	KD	1380	1	225)	LS	1520	1
177)	NU	1380	1	3)	GD	°1530	0.35
178)	FO	1390	1	226)	DN	1530	0.25
179)	NY	1390	1	227)	JB	1530	1
180)	AS	1400	1	228)	LE	1530	1
181)	BK	1400	1	229)	BV	1540	1
182)	JJ	1400	1	230)	MB	1540	
183)	KM	1400	0.25	231)	ZF	1540	0.25
184)	TJ	1400	1	232)	HD	1540	1
185)	BY	1410	1	233)	AX	1550	1
186)	DU	1410	0.5	234)	GY	1550	1
187)	EI	1410	0.5	235)	LT	1550	1
188)	FS	1410	1	236)	ZI	1550	1
189)	HM	1410	1	237)	GP	1560	1
190)	AP	1420	1	2)	GP	°1560	1
191)	HK	1420	1	238)	KG	1560	1
192)	BH	1430	1	239)	LP	1560	1
193)	BP	1430	1	240)	ZX	1560	0.25
194)	EG	1430	1	241)	ZT	1570	1
4)	KU	°1430	1	242)	HE	1570	1
195)	BZ	1430	1	243)	KF	1580	
196)	EK	1440	1	244)	LC	1580	1
197)	FL	1440	1	245)	IP	1590	1
198)	GM	1440	1	246)	JO	1590	1
19)	IB	°1440	1	247)	JH	1600	1
199)	NZ	1440	1				

Abbreviations: Cl = Calle, Cr = Carrera, Aéreo = Apartado Aéreo.

CARACOL (Primera Cadena Radial Columbiana) (Comm. Net.)
Addr: Aéreo 9291, Bogotá. **Te:** 349580. **Cable:** Caracol. **L.P:** Pres: E. Bermúdez. Comm. Mgr: J. Alvarez B. Regional Mgrs: J. Alvarez B. (Bogotá), A. Toro M. (Medellin), R. Payán S. (Cali), G. Aristizábal E. (Manizales), L. Jaime E. (Barranguilla).
Stations: a) basic network, b) R. Reloj, c) R. Quince. To network a) belong: 50), 56), 58), 62), 77), 84), 95), 102), 113), 135), 190), 192) & 225). **Relays** by FM link include news ("El Repórter Esso", "Ultima hora Caracol") and extensive programming in net a), usually originating from st. 58). **Ann:** (cf. each station) a) "Transmite Caracol por sus emisoras . .", or "Con ustedes . . . . sus emisoras Caracol en . .." b) "Con ustedes R. Reloj, otra emisora Caracol en . .".

TODELAR (Circuito Todelar de Colombia) (Comm. Net).
Addr: Aéreo 4392, Cali. **Te:** 89386. **Cable:** Todelar. **L.P:** Pres: B. Tobón de la Roche. Dir. Gen: J. Palacio S. Net. Coord: A. Goicochea L. **Office in Bogotá:** Aéreo 8467. **Te:** 415036. Mgr: J. Tobón de la Roche. Comm. Mgr: J. Garcia C — **Stations (Basic Netw):** 17), 21), 23), 25), 26), 27), 33), 34), 38), 41), 43), 44), 52), 55), 60), 61), 63), 78), 86), 87), 89), 96), 105), 109), 156), 207) + 76 affiliated st's — **Relays** (by FM link) include news ("El Noticiero Todelar"), sports and special events. Most prgr's originate from no. 33), 23) and 34). **Ann:** (cf. each station) "Desde el Radiocentro Todelar y su Circuito Nacional de Emisoras, les habla . . . Todelar se escucha en toda la nación" or "Somos Todelar, somos profesionales, somas . . . Gracias por su amable sintonía".

RCN (Radio Cadena Nacional) (Comm. Net)
Addr: Aéreo 1244, Medellín. **Te:** 428640. **L.P:** Pres: R. J. Arango. Gen. Mgr: A. Jaramillo O. **Office in Bogotá:** Cr. 15 No. 13-47. **Te:** 344805. **St. Mgr:** J. Suarez — **Stations:** (Basic network): 18), 20), 28), 36), 51), 103), 112), 157) + numerous affiliated stations. **Relays** by FM link include news ("Actualidades RCN"), sports and special events. Most prgr's originate from no. 36) and 20) — **Ann:** (cf. each station) "Transmite Radio Cadena Nacional por su emisora . . . RCN, el sistema radial más poderoso de Colombia". Other networks have no relay facilities; stations offer separate programming.

CORAL (Corp. Radial Colombiana), Aéreo 10951, Bogotá. **Te:** 429435. **Stations:** 85), 114), 159) and 236).

RST (Radio Sistema Tricolor), Aéreo 7766, Bogotá. **Stations:** 40), 45), 49), 68), 71), 88), 136), 163).

CRI (Cadena Radial Independiente), Cr 5 No. 1614, Bogotá. **Te:** 434654. **Stations:** 5), 29), 97), 110), 121), 141), 147), 171), 173), 176), 178), 199), 200), 214), 217), 219), 245).

1) **Instituto Nacional de Radio y TV** (Gov. Net)
Addr: Via del Aeropuerto El Dorado, Bogotá. **Studios:** Transv. 17 No. 25-65, Bogotá. **Te:** 446020. **L.P:** Dir. Gen: L. Eduardo F. Dir. Tec: J. E. Nassar. **D. Prgr:** 11.35-04.25 (Sun 13.50-04.10). **Pub:** Monthly prgr. guide. **V.** by letter. FM. 98.5MHz. St's under construction; 590kHz 10kW (Medellín); 580kHz 50kW (Cali); 960kHz 10kW (Manizales); 1000kHz 100kW (Barranquilla).
2) **Acción Cultural Popular** (R. Sutatenza Comm. Net).
Addr: Aéreo 7170, Bogotá. **Te:** 420543. **Cable:** Radiofónicas. **L.P:** Dir. Gen: Mons. J. J. Salcedo G. Mgr: F. Sarmiento O. Dir. Prgr: F. Gutiérrez R. Dir. Tec: P. Sánchez C. **D. Prgr: On 5095kHz:** W 10.20-14.00, 19.00-03.10; Sun 12.50-02.00. On 1560kHz (Sutatenza): 10.20-14.00, 18.45-03.10. **N:** 12.00, 23.20, 01.00, 03.00. **On 5075/6075 kHz:** 10.20-03.10. On 590kHz (Medellin): 10.30-05.00. On 810kHz (Bogotá): 10.45-04.00. On 1150kHz (Belencito): 10.45-03.10. On 960kHz (Barranquilla): 11.00-05.00. On 1490kHz (Pasto): 11.00-03.00. FM: 88.1MHz (Bogotá, Medellin). **Ann:** "R. Sutatenza afiliada a la Confederación Latinamericana para la Educación Fundamental Integral transmite desde Sutatenza, en Boyacá, República de Columbia" **V.** by QSL-card. Re. to Apt. Aéreo 7170, Bogota. Recordings accepted. **F. P1:** Bogotá (810kHz) 250kW, Cali (700kHz) 125kW, Barranquilla (960kHz) 125kW during 1969.
3) Chiquinquirá. **L.P:** Dominican fathers.
4) Aéreo 16029, Bogotá. **Te:** 478763. **L.P:** Dir. Gen: Rev. F. J. V. Echeverri S. J. Dir. Tec: I. Morales. Dir. Prgr: M. Palacio D. **D. Prgr: LL:** E 16.45, 00.00; F 02.55. **Ann:** "La Voz de Mariá Emisora Kennedy, popular y para todos los gustos". **V.** by letter.
5) Cr. 3 No. 12-29, Ibagué. **L.P:** Dir. Gen. J. Eugenio C. Dir. Tec: C. Estévez. **Ann:** "No amigo, no se mueva, esta es Ecos del Combeima, su Emisora de todas las horas". **V.** by letter. FM: 88.7MHz.
6) **R. Reloj,** Aéreo 9291, Bogotá. **Te:** 349580. **L.P:** Mgr: S. Ospina T. **D.Prgr:** 24 h. (time & music). FM: 96.5MHz.
7) Aéreo 390, Pasto. **Te:** 1854. **Cable:** Radionariño. **L.P:** Mgr: C. Acosta O. **D.Prgr: N:** 11.00, 12.00, 17.30, 18.00, 00.00. **V.** by letter. Recordings accepted.
8) Cl. 5, Cr. 2, Buenaventura. (Mw reported on 1362kHz). FM: 92.0MHz.
9) Aéreo 572, Bucaramanga. **Te:** 25406. **L.P:** Dir. Gen: J. Sorzano B. Dir. Tec. G. Sorzano J. **D. Prgr:** N: 12.00, 17.00, 24.00, 03.00. **Ann:** "Estas son las Emisoras de R. Bucaramanga, transmitiendo en sus frequencias HJGF onda corta 4845kc, HJGE onda larga 880kc y HKSO FM 96.5MHz, R. Bucaramanga, primera Emisora del Oriente colombiano". **V.** by QSL-card, Re. in Sp, E.
10) Ca. 4a No. 4-79, Neiva. **Te:** 3199. **Cable:** Radioneiva. **L.P:** St. Mgr: R. Azuero M. Dir. Prgrs: G. Hernández. R. Dir. Tec: L. Carlos C. **D. Prgr: N:** 12.00, 17.30, 00.00, 02.00. **V.** by letter. Recordings accepted. (Mw reported on 1227kHz). **FM:** 92. 1MHz. **F. P1:** 2.5kW for sw-tr.
11) Cl. 20 No. 21-62, Villavicencio. **Te:** 2386. **L.P:** Mgr: J. Arcila M.
12) Apt. Aéreo 2196, Villavicencio.
13) Cr. 7 No. 11-35, Bogotá. **Te:** 421105. **L.P:** Mgr: A. Gaitán. **V.** by QSL-card.
14) Aéreo 174, Barranquilla. **L.P:** Mgr: M. A. Blanco. FM: 92.1MHz.
15) Cl. 6 No. 4-59, Neiva. **Te:** 5280. **Cable:** Colosal. **L.P:** R. Navarro D. Silva S. **D.Prgr:** 24 h. **Ann:** "Esta es R. Colosal, la más potente radiodifusora del sur de Colombia, Colosal, un nombre grande para una emisora poderosa". **V.** by letter.
16) Aéreo 9339, Bogotá. **Te:** 417404. **Cable:** Radio Santafe. **L.P:** Pres: Luisa V. de Bernal. Mgr: A. Guzmán A. **D. Prgr:** 24 h. **Ann:** "Aqui y en todas partes Radio Santa Fé, 1070 y 4965kc, en Bogotá, Columbia". **V.** by QSL-card and letter. FM: 97.7MHz.
17) Aéreo 1300, Cúcuta. **Te:** 4390. **Cable:** Radiointernacional. **L.P:** L. E. Mantila S. FM: 90.1MHz. Mw reported as 1214kHz (v).
18) Aéreo 244, Manizales. **Te:** 27890. **Cable:** Transmisora. **L.P:** Dir. Gen: I. Escobár U. St. Mgr: H. Villegas J. Dir. Tec: E. Martinez. Dir. Prgrs: J. Castro E. **D. Prgr:** 24 h. **N:** 12.00, 17.30, 23.30. **Ann:** "Transmisora Caldas de Manizales, filial del Sistema RCN, Radio Cadena Nacional". **V.** by letter. Recordings accepted. FM:90.5MHz 0.25kW.
19) Florencia.
20) Aéreo 1244, Medellin. **Te:** 428640. **L.P:** Dir: G. Sarmiento G. Dir. Tec: G. Llano. **Ann:** "Transmite R. Cadena Nacional por su emisora La Voz de Medellín" **V.** by letter. Recordings accepted. FM: 88.5MHz.
21) Aéreo 13018, Bogotá. **Te:** 424923. **Prgr:** Tropical music. **FM:** 96.9MHz.
22) Av. Jiménez 5-40, Bogotá. **Te:** 439813. **L.P:** Pres: A. Galindo. Mgr: J. Venegas N. **D.Prgr:** DX prg. (ham) Sun 14.00-14.30. **Ann:** "Esta es Horizonte, la primera en su cüadrante". **V.** by letter. FM: 94.1MHz.
23) Aéreo 1431, Medellin. **Te:** 437028. **Cable:** Vozrio. **L.P:** Dir. Gen: B. Tobón de la Roche. Mgr: J. Restrepo L. **V.** by letter. Recordings accepted.
24) Apt. Nac 79, Tunja. **Te:** 2264. **L.P:** Dir: R. Castro J. FM: 94.7 MHz.
25) Aéreo 244, Pereira. **Te:** 2396. **Cable:** Voz Pueblo. **L.P:** Mgr: J. Mejia D. **V.** by letter. FM:92.3MHz. Mw reported as 1240kHz.
26) Aéreo 89, Pereira. **Te:** 8872. **L.P:** Mgr: R. Ilián B. FM: 95.3MHz.
27) Aéreo 780, Ibagué. **Te:** 30297. **Cable:** Voztolima. **L.P:** Mgr: N. Gonzales. Adm: C. Rojas. **V.** by letter or QSL-card. FM: 91.3MHz.
28) Aéreo 2180, Cali. **Te:** 74110. **L.P:** Mgr: J. Còrdoba M. **V.** by QSL-card (Mw reported on 1025kHz). FM:88.5MHz.
29) Aéreo 375, Pasto. **L.P:** Dir. Gen: J. Alvarez S. Dir. Tec: F. Gallardo G. **D. Prgr:** N: 11.30, 17.15, 00.00. **Ann:** "Ud. escucha C.R.I. Cadena Radial Independiente y su estación en el departamento de Nariño, Ecos de Pasto, HJHB 740kc onda larga, 6085 kc onda corta". **V.** by letter.
30) Cr. 7 No. 8-58, El Espinal. **Te:** 240. **L.P:** Mgr: J. Pava Navarro. **Ann:** "Desde la ciudad de las acacias transmite La Voz del Centro, la emisora del Tolima y de Girardot". (Mw reported on 1117kHz). FM: 94.9MHz.

31) Aéreo 3163, Medellin. **Te:** 419027. **Cable:** Radiovision. **L.P:** Dir: Gen: E. Bermudez R. Co-ord: J. Tobón de la Roche. **V.** by letter. Rp.FM: 92.9MHz.
32) Aéreo 2075, Villavicencio. **Te:** 2279. **L.P:** Mgr: B. Otero L. **D. Prgr:** DX Prgr. (ham) Sun 16.00-16.30. **Ann:** "Amigos nuestros: disde la ciudad de Villavicencio, realidad del presente y gigantesco provecho del porvenir, les habla La Voz del Llano . . . " **V.** by letter. FM: 94.9MHz.
33) Cr.5 No. 18-84, Bogotá. **Te:** 415036. **Cable:** Radiocontinental. **L.P:** Mgr: J. Tobón de la Roche. **D. Prgr:** 24 h. **V.** by letter. FM: 92.9MHz.
34) Aéreo 1972, Cali. **Te:** 751230. **Cable:** Radiosol. L.P: Mgr: B. Tobón de la Roche. **D. Prgr:** 24 h. FM: 95.3MHz.
35) Aéreo 535, Popayan. **Te:** 2371. **Cable:** Vozcauca. **L.P:** Mgr: L. Burkhardt. Dir. Tec: O. Burkhardt. **Ann:** "La Voz del Cauca, del Circuito Todelar de Colombia, 10 moderno en radio". **V.** by letter.
36) Cr. 15 No. 13-47, Bogotá. **Te:** 344805. **Cable:** Nuevagranada. **L.P:** Mgr: J. Suarez. Dir. Tec: H. Jiménez. **D. Prgr: N:** 12.00, 17.30, 02.30, 04.45. **Ann:** "Esta es R. Cadena Nacional por su emisora Nueva Granada de Bogotá, RCN el sistema radial más poderoso de Colombia". **V.** by QSL-card. Re. in Sp, E. Recordings accepted. FM: 88.5MHz.
37) Cl. 9 No. 41-14, Valledupar. **Te:** 3178. **L.P:** Mgr: H. Aristizábal R. **V.** by letter (Mw reported on 1055kHz).
38) Aéreo 1972, Cali. **Te:** 811350. **Cable:** Vozcali. **L.P:** Mgr: B. Tobón de la Roche. Dir. Tec: L. C. Escobar. **D. Prgr:** DX Prgr. (ham) Mon 03.00-03.30 (repeat from Horizonte). **V.** by letter. FM: 02.9MHz.

Medium Waves:

39) **R. Libertad,** Aéreo 2693, Barranguilla. **Te:** 26150. **Cable:** Radiolibertad. **L.P:** Mgr: N. Fayad M. Adm: A. J. de Castro. Dir. Prgr: T. Pizarro. **D.Prgr:** 24 h. Arabic: Mon 01.00-02.00. **Ann:** "Esta es la modernisima R. Libertad, 600kcs. 25.000 vatios de potencia en Barranquilla, Colombia, América del Sur". **V.** by letter. **F.Pl:** Sw 49 or 60m. FM: 96.9MHz.
40) **R. Tricolor,** Av. 2 No. 27-58, Cali. **Te:** 63812. **L.P:** Mgr: J. A. Vanegas R. Adm: O. Zamurano. **D. Prgr:** 24 h. FM: 90.5MHz.
41) **R. Manizales,** Aéreo 67, Manizales. **Te:** 21395. **L.P:** Mgr: J. Zulaaga. **V.** by letter. **FM:** 92.9MHz.
42) **La Voz de Santa Marta,** Aéreo 540, Santa Marta. **Te:** 3561. **L.P:** Mgr: H. Cohen S. **V.** by letter. FM: 90.9MHz.
43) **Emisora Monserrate,** Aéreo 13018, Bogotá. **Te:** 348141. **L.P:** Mgr: J. Tobón de la Roche. **D.Prgr:** light music. FM:95.7MHz.
44) **R. Uno,** Aéreo 4392, Cali. **Te:** 881993. **Cable:** Radiouno. **L.P:** Mgr: A. Goicochea L. **D. Prgr:** 10.00-05.00 (music & news). **V.** by letter. FM: 90.5MHz.
45) **R. Tricolor,** Pasa je Comercial Astoria 105, Bello. **L.P:** Mgr: J. A. Vanegas R. Adm: H. Pérez S. **D. Prgr:** 24 h (mainly tango music) FM: 90.5MHz.
46) **R. Miramar,** Aéreo 246, Cartagena. **L.P:** Mgr: Mario J. Mesa. FM: 92.9MHz.
47) **La Voz de Colombia,** Aéreo 3855, Bogotá. **Te:** 422344. **L.P:** Pres: J. Ortiz M. FM: 97.3MHz.
48) **Emisoras Unidas,** Aéreo 154, Barranquilla. **Te:** 10120. **Cable:** Emisunidas. FM: 90.5MHz.
49) **R. Tricolor,** Aéreo 7766, Bogotá. **Te:** 321463. **L.P:** Mgr: J. A. Vanegas R. FM: 90.5MHz.
50) **La Voz de Antioquia,** Aéreo 718, Medellin. **Te:** 450838. **L.P:** Mgr: A. Toro M. **V.** by letter. FM: 93.7MHz.
51) **La Voz de Barranquilla,** Aéreo 1883, Barranquilla. **L.P:** Dir: F. Vargas V.
52) **R. Tequendama,** Cr. 8 No. 17-33, Bogotá. **Te:** 348141. **L.P:** Mgr: J. Tobón de la Roche. FM: 95.3MHz.
53) **R. El País,** Edifico Lloreda, Cali. **D. Prgr:** LL (English) Tues, Thurs, Sat 03.00-03.15 (repeated Tues, Thurs, Sat 13.30-13.45) **V.** by letter. FM: 97.7MHz.
54) **R. Quince,** Aéreo 1864, Medellin. FM: 96.1MHz.
55) **Emisora Atalaya,** Cl.35 No. 21-28, Bucaramanga. **Te:** 27513. **Cable:** Radioatalaya. **L.P:** Mgr: G. Serrano. F. **D. Prgr:** 11.00-03.00. **V.** by letter. (Reported on 812kHz). FM: 95.7MHz.
56) **La Voz del Rio Cauca,** Cr.1 No. 18-39, Cali. **Te:** 72730. **L.P:** Mgr: R. Payán S. Dir. Tec: A. Restrepo. **D. Prgr:** 24 h. Transmitters located at Buga with directional antenna N.E. FM: 93.7MHz.
57) **Ondas del Caribe,** Aéreo 757, Santa Marta. Te: 3274. **Cable:** Oncaribe. **L.P:** Mgr: A. Diaz G. **Ann:** "Desde Santa Marta, el puerto marítimo más seguro de Colombia, transmite Ondas del Caribe . . . " **V.** by letter. FM: 91.7MHz.
58) **Emisora Nuevo Mundo,** Aéreo 9291, Bogotá. **Te:** 349580. **L.P:** St. Mgr: J. Alvarez B. Tec. Dir: M. Frick. **D. Prgr: N:** every h on the h and 12.15, 18.15, 00.15. **Ann:** "Con ustedes Emisora Nuevo Mundo, sus emisoras Caracol en Bogotá". **V.** by QSL-card. Recordings accepted. FM: 93.7MHz.
59) **Voces de Occidente,** Cr. 14 No. 2-25, Buga. **Te:** 2355. **Cable:** Vozoccidente. **L.P:** Mgr: R. Antonio A. FM: 96.7MHz.
60) **Emisoras Fuentes,** Aéreo 1771, Cartagena. **L.P:** Mgr: N. Fuentes M. **V.** by letter.
61) **R. Eco,** Aéreo 4395, Cali. **Te:** 811957. **Cables:** Radioeco. **L.P:** Mgr. J. Romero C. FM: 91.3MHz.
62) **La Voz del Café,** Cl. 18 No. 8-47, Pereira. **Te:** 8941. **L.P:** Mgr: F. Maldonado. FM: 96.7MHz.
63) **La Voz del Galeras,** Cr. 22 No. 19-47, Pasto. **Te:** 2774. **Cable:** Vozgaleras. **L.P:** Mgr: T. Ville V. FM: 96.1MHz.
64) **Emisora Mil Veinte,** Aéreo 10556, Bogotá. **Te:** 437027. FM: 94.5MHz.
65) **Emisora Claridad,** Aéreo 2090, Medellin. **Te:** 81900. **Cable:** Emiclaridad. **L.P:** Mgr: S. Parra. (Reported on varying fq 1024-1027 kHz). FM: 89.7MHz.
66) **R. Quince,** Aéreo 397, Barranquilla. **L.P:** Mgr: E. Ariza. **V.** by letter. (Reported on 1015kHz). FM: 89.9MHz.
67) **La Voz de los Libertadores,** Aéreo 1030, Duitama. **Te:** 2572. **L.P:** Mgr: C. Rodriguez. **V.** by letter. (Reported on 1032kHz). FM: 90.9 MHz.
68) **R. Melodía,** Aéreo 7766, Bogotá. **Te:** 444917. **L.P:** Mgr: J. A. Vanegas R. **D.Prgr:** 12.00-05.00. **Ann:** "Esta es R. Melodía, la emisora que manda en sintonía". FM: 92.5MHz.
69) **R. Progreso de Córdoba,** Aéreo 4864, Lorica.
70) **La Voz del Triunfo,** Cr. 51 No. 51-31, Medellin. **L.P:** Mgr: L. E. Ramirez.
71) **La Voz del Nevado,** Carretera Girardot km 3, Ibagué.
72) **R. Palmira,** Aéreo 280, Palmira. **L.P:** Mgr: O. Burkhardt. **F.Pl:** 10kW.
73) **R. Bucarica,** Cl. 35 No. 21-81, Bucaramanga. **Te:** 27513. **L.P:** Mgr: G. Serrano F. FM: 97.3MHz.
74) **R. Reloj,** Aéreo 718, Medellin. **Te:** 450515. **L.P:** Mgr: H. Restrepo A. Adm: I. Torres Q. **D. Prgr:** 24 h (time & music), FM: 95.5MHz (Mw reported on 1082kHz).
75) **La Voz de Montería,** Montería. **Te:** 321. **L.P:** Mgr: G. Gómez P.
76) **R. Musical,** Cl. 11 No. 9-20, Cali. **Te:** 811300. **Cable:** Radiomusical. **L.P:** Mgr: B. Tobón de la Roche. FM: 89.7MHz.
77) **La Voz de Cúcuta,** Av. 5 No. 8-32, Cúcuta. **Te:** 2035. **L.P:** Mgr: C. Pérez A.
78) **La Voz de Armenia,** Aéreo 617, Armenia. **Te:** 1488. **L.P:** Miss M. Villegas.
79) **La Voz de Oriente,** Cr. 11 No. 11-59, Sogamoso.
80) **R. Reloj,** Cl. 43 No. 72-14, Barranquilla. **Te:** 47911. **L.P:** Mgr: E. Valencia C. **D. Prgr:** 24 h. (time & tropical music). FM: 95.5MHz.
82) **R. Bolivariana,** Aéreo 1178, Medellin. **L.P:** Mgr: R. Saldarriaga.
83) **R. Reloj,** Cr. 1 No. 18-39, Cali. **Te:** 87556. **L.P:** Mgr: R. Payán S. **D. Prgr:** 24 h. (time & music). FM: 96.5MHz.
84) **R. del Comercio,** Cr. 36 No. 21-50, Bucaramanga. **Te:** 25418. **L.P:** Mgr: R. Pérez. FM: 90.5MHz.
85) **R. Tunja,** Tunja. **Te:** 2909. **L.P:** E. Rodriguez P. FM: 92.1MHz. 92.1MHz.
86) **R. Cartago,** Aéreo 2, Cartago. **Te:** 2125. **L.P:** Mgr: A. Escobar M. Dir. Arts: C. E. Pérez L. **D. Prgr:** 24 h. **V.** by letter.
87) **Emisoras Rio-Mar,** Aéreo 2010, Barranquilla. **Te:** 43100. **L.P:** Mgr: L. Otálora G. **D. Prgr:** 11.00-06.00. **V.** by letter. (Reported on 1135kHz).
88) **R. Suramérica,** Transv. 6 No. 27-10, Bogotá. **Te:** 349867. **L.P:** Mgr: J. A. Vanegas R. Tec. Dir: J. Rios. **Ann:** "Esta es Suramérica, la emisora de su hogar". FM: 90.1MHz.
89) **R. Cristal,** Av. Colombia 56C-11, Medellín. **Te:** 459902. **L.P:** Mgr: J. Restrepo. FM: 94.5MHz.
90) **La Voz del Valle,** Cr. 6 No. 12-71, Cali. **L.P:** Mgr: J. Giraldo S.
91) **R. Guatapuri,** Aéreo 51, Valledupar. **L.P:** Mgr: J. M. Pineda.
92) **R. Girardot,** Cl. 14 No. 11-19, Girardot. **Te:** 3377. **L.P:** Mgr: C. Cifuentes G.
93) **Ondas del Rio,** Aéreo 503, Maganguè. **Te:** 238. **Cable:** Onrio. **L.P:** Mgr: R. Cure A. **V.** by letter. FM: 96.1MHz.
94) **R. Catatumbo,** Aéreo 19, Ocaña. FM: 89.3MHz.
95) **Pregones del Quindio,** Edif. Banco Cafetero, Armenia. **Te:** 1200. **L.P:** Mgr: L. Dávila M. FM: 96.5MHz.
96) **Emisoras Sinu,** Aéreo 148, Montería. **D. Prgr:** 24 h. (Reported on 1156kHz). FM: 93.7MHz.
97) **Ondas de la Ciénaga Grande,** Cr. 11 No. 15-31, Ciénaga. **V.** by letter. Recordings accepted. **F. Pl:** 5kW.
98) **El Mundo en Bogotá,** Cr. 7 No. 17-14, Bogotá. **Te:** 429022. **L.P:** Mgr: A. Castaño C. Dir. Prgr: G. Rueda C. **D.Prgr:** Mon-Sat 12.25-05.03, Sun 15.00-04.05 (good music). **N:** W every h on the h. Sun 23.00, 24.00, 02.00, 04.00. **LL:** French: W 12.30. **Hebrew:** Sun 18.00-19.00. **V.** by letter. **Pub:** Weekly prgr. sched. FM: 91.3MHz.
99) **R. Las Lajas,** Ipiales. **D. Prgr:** 12.00-02.00.
100) **R. Nutibara,** Cr. 50 No. 52-75, Medellin. **Te:** 414765. **L.P:** Mgr: J. Garcia L. FM: 96.9MHz.
101) **Emisora Villa de Céspedes,** Aéreo 126, Tuluá. **Te:** 2855. **L.P:** Mgr: E. Gómez H. FM: 92.5MHz.
102) **La Voz del Ruiz,** Aéreo 335, Manizales. **Te:** 2423. **L.P:** Mgr: W. Vargas G.
103) **R. Santander,** Aéreo 1100, Bucaramanga. **L.P:** Mgr: N. Serrano G. FM: 97.7MHz.
104) **La Voz de la Costa,** Av. 72 No. 50-11, Barranquilla. **Te:** 42880 **Cable:** Vozcosta. **L.P:** Mgr: G. Forero Sammiguel. **FM:** 94.9MHz.
105) **R. Cordillera,** Aéreo 8467, Bogotá. **Te:** 415036. **L.P:** Mgr: J. Garcia C. **Prgr:** Tropical music & news. FM: 94.9MHz.
106) **Ondas del Valle,** Cr. 5 No. 12-13, Cartago.
107) **R. Tumaco,** Tumaco.
108) **Ondas del Atrato,** Quibdo. **L.P:** Mgr: A. Sanchez B.
109) **Emisora Nueva Epoca,** Cr. 6 No. 7-55, Fusagasugá. **Te:** 2018. **L.P:** Mgr: A. Useche R.
110) **R. Colibrí,** Aéreo 4552, Medellin. **Prgr:** Soft music. **F. Pl:** 10kW.
111) **R. Mil Doscientos, La Sultana del Valle,** Aéreo 6015, Cali. **L.P:** Mgr: H. E. Velasco. **D. Prgr:** 24 h.
112) **R. Cordobesa,** Cl. 30, Cr. 34, Montería. **V.** by letter. FM: 96.7MHz.
113) **La Voz del Litoral,** Cl. 72 No. 43.63, Barranquilla. **Te:** 41844. **L.P:** Mgr: J. Tabou L. **V.** by letter. FM: 94.1MHz.
114) **R. Juventud,** Aéreo 10951, Bogotá. **L.P:** Gen. Mgr: A. Monroy G. FM: 92.1MHz.
115) **Emisora Cultural Bolivar,** Ipiales.
116) **La Voz de las Américas,** Cr. 51 No. 58-26, Medellin. FM: 97.3 MHz.
117) **R. Unica,** Tunja. **L.P:** Mgr: A. J. Piedrahita C.
118) **R. Calidad,** Aéreo 5400, Cali. **L.P:** Mgr: A. J. Ospina P. (Reported on 1235kHz).
118a) **La Voz del Comercio.** Aéreo 556, Armenia.
119) **R. Barrancabermeja,** Edif. Santa Fé, Barrancabermeja, **FM:** 88.9 MHz.
120) **Emisoras ABC,** Aéreo 154, Barranquilla. **Te:** 10120.
121) **R. Guadaira,** Aéreo 14400, Bogotá. **Te:** 603106. **L.P:** Mgr: L. E. Sandoval R.

Colombia

122) **La Voz de Corozal,** Corozal. **Te:** 231. **L.P:** Mgr: N. Martelo.
123) **R. Reloj,** Aéreo 519, Cúcuta. **D.Prgr:** 24 h.
124) **Emisora Mariana,** Pasto.
125) **Emisora Siglo Veinte,** Aéreo 1244, Medellin. **D.Prgr:** 24 h. FM: 92.1MHz.
126) **R. Cacique,** Ibague.
127) **R. Quince,** Aéreo 4882, Cali. FM: 95.7MHz.
128) **R. Morgan,** Edif. Hotel Morgan, San Andrés Isla. **L.P:** Mgr: S. Duque.
129) **R. Duitama,** Cl. 16, Cr. 16, Duitama. FM: 91.7MHz.
130) **Voz del Cesar,** Valledupar. **L.P:** Mgr: A. Leon V.
131) **Onda Libre,** Aéreo 520, Pereira. FM: 97.3MHz.
132) **R. Quince,** Aéreo 1337, Bucaramanga.
133) **La Voz de Cartagena,** Aéreo 246, Cartagena.
134) **La Voz de Ciénaga,** Ciénaga (Reported on 1270kHz). FM: 93.3MHz.
135) **R. Pasto,** Cr. 19 No. 16.50, Pasto. **Te:** 2947. **L.P:** Mgr: A. Gonzáles. **Ann:** "Esta es R. Pasto, la Emisora del Civismo en Nariño".
136) **R. Metropolitana,** Aéreo 7766, Bogotá. **Te:** 457073. **D.Prgr:** 24 h (Mexican music). **Ann:** "Esta es R. Metropolitana, la emisora musical por exelencia" or "La hora exacta en Metropolitana . . . " FM: 89.3 MHz. (Reported on 1282kHz (V).
137) **La Voz del Rio Suárez,** Barbosa. **L.P:** R. Fonseca. (Reported on 1285kHz).
138) **R. Sur,** Pitalito. **L.P:** Mgr: F. P. de Castro. **D. Prgr:** 10.00-03.00. V. by letter or QSL-card. Recordings accepted.
139) **R. Libertador,** Cr. 3 No. 15-80, Cali. **L.P:** Mgr: R. Angulo (Reported on 1295kHz).
140) **La Voz de Garagoa,** Cra. 4a No. 2-57, Garagoa (Boyacá). **L.P:** Mgr: H. Gómez R. V. by letter. Recordings accepted. **F.Pl:** 50kW power.
141) **Ondas del Puerto,** Cl. 15 No. 11A-54, Girardot.
142) **Ondas de Maicao,** Maicao. **L.P:** Mgr: T. Domingo B.
143) **R. Ritmos,** Aéreo 4300, Medellin. **L.P:** Mgr: G. Sarmiento G. FM: 89.3MHz.
144) **La Voz de Urabá,** Edif. Banco Popular, Turbo Apartado. (Reported on 1308kHz).
145) **Emisora Rio San Eugenio,** Cr. 15 No. 15-32, Santa Rosa de Cabal. **Te:** 1044. **L.P:** Mgr: J. Hurtado C.
146) **R. Reloj,** Aéreo 223, Bucaramanga. **Te:** 28088. **L.P:** Mgr: R. Pérez. **D.Prgr:** 24 h (time & tropical music). FM: 88.1MHz.
147) **La Voz de las Antillas,** Vicente Garcia 617, Cartagena **Te:** 16277. **L.P:** Mgr: G. Tobón M.
148) **La Voz de la Patria,** Aéreo 231, Barranquilla. **L.P:** Mgr: C. Vassallo M. V. by letter and pennant. (Reported on 1315kHz). FM: 97.7MHz.
149) **Transmisora Rio,** Monteria (Reported on 1300kHz). FM: 91.5 MHz.
150) **R. Quince,** Cl. 19 No. 8-48, Bogotá. **Te:** 418659. **D.Prgr:** Rock 'n'roll. **Ann:** "Yo soy jóven, muy jóven. . .yo soy R. Quince".
151) **Ondas del Huila,** Cr. 7 No. 3-24. **D.Prgr:** 24 h.
152) **R. Furatena,** Chiquinquirá.
153) **R. Luna,** Palmira. **L.P:** Mgr: E. Luna y S.
154) **La Voz de la Independencia,** Aéreo 4910, Medellin. **Te:** 411841. **L.P:** Mgr: C. Cardona V. (Reported on 1318kHz). FM: 93.3MHz.
155) **La Voz del Tocarema,** Girardot.
156) **R. Vigia,** Aéreo 1771, Cartagena. **L.P:** Gen. Mgr: G. Ortiz M. **D. Prgr:** 24 h (Reported on 1328kHz).
157) **La Voz de Pereira,** Cr. 18 No. 8-54, Pereira. **L.P:** Mgr: A. Buitrago G. V. by QSL-card. (Reported on 1337kHz). FM: 96.9MHz.
158) **La Voz de Chicamocha,** Aéreo 1402, Bucaramanga. **L.P:** Mgr: A. Vázquez P. V. by letter. **F.Pl:** 5kW. (Reported on 1346kHz).
159) **La Voz del Norte,** Cúcuta. **L.P:** Mgr: A. Monroy G.
160) **CRC, Cadena Radial del Caribe,** Aéreo 276, Barranquilla
161) **R. Calidad,** Cr. 42 No. 13-94, Bogotá. **Te:** 479167. **L.P:** Mgr: P. Ujueta. **Prgr:** Tropical music. FM: 90.9MHz.
162) **Transmisora Sucre,** Fco. Porras 20-37, Sincelejo. **L.P:** Mgr: R. Hernández. V. by letter. (Reported on 1322kHz). FM: 95.9MHz.
163) **La Voz de la Candelaria,** Pasaje Comercial Astoria 105, Bello. **L.P:** Adm: H. Pérez S. **D.Prgr:** 10.00-05.00.
164) **R. La Fabulosa,** Aéreo 2146, Cali. **L.P:** Mgr: V. A. Gallon Tamayo
165) **La Voz de Chaparral,** Chaparral. **L.P:** Mgr: J. E. Gutiérrez.
166) **R. Industrial,** Ibague. **L.P:** Mgr: F. Espinosa G.
167) **Ecos del Rio,** Puerto Boyacá. (Reported on 1354kHz).
168) **La Voz de Anserma,** Cr. 4 No. 5-45, Anserma. **L.P:** Dir: E. Giraldo A.
169) **Emisora José A. Galán,** Socorro. **L.P:** Mgr: Mario G. Rojas V. **D.Prgr:** 10.00-03.00. V. by letter or QSL-card. Recordings accepted. (Reported on 1367kHz).
170) **R. Sabanas,** Cl. 24 No. 18-31, Sincelejo. **Te:** 2992. **L.P:** Mgr: N. Miserque A. (Reported on 1370kHz).
171) **R. Guaimaral,** Cl. 9, Av. 3, Cúcuta. **L.P:** Mgr: C. Ramirez P.
172) **R. Piloto,** Aéreo 320, Barranquilla. (Reported on 1360 kHz). FM: 91.3MHz.
173) **R. Mundial,** Aéreo 20333, Bogotá. **Te:** 321748. **L.P:** Mgr: J. J. Molina R. **D.Prgr:** 24 h (night: soft music). FM: 94.7MHz. **Pub:** monthly prgr. bulletin.
174) **Armonias del Palmar,** Cr. 29 No. 32-90, Palmira. **Te:** 3344. **L.P:** Mgr: J. Bejarano D.
175) **La Voz de la Dorada,** Cr. 3 No. 2-55, La Dorada. **Te:** 7171. **L.P:** Mgr: A. Suárez.
176) **Armonias del Sur,** Aéreo 192, Neiva. FM: 94.1MHz.
177) **R. Santa Bárbara,** Aéreo 3854, Santa Bárbara.
178) **R. Luz,** Aéreo 284, Manizales.
179) **R. Pipatón,** Edif. Gas. Hipinto, Barrancabermeja. **Te:** 2149. FM: 93.3MHz.
180) **R. Variedades,** Aéreo 403, Barranquilla.
181) **La Voz de la Gran Colombia,** Edif. Banco del Comercio, Cúcuta. **L.P:** Dir: L. E. Mantilla S. FM: 92.1MHz.
182) **R. Ipiales,** Aéreo 23, Ipiales. **Te:** 464. **L.P:** Mgr: E. Concha S.
183) **Emisora Mariana,** Cr. 7 No. 6-10, Bogotá. **Te:** 462712. **L.P:** Mgr: C. O. S. Agustin.
184) **La Voz de Cereté,** Edif. Barguil, Cereté. **L.P:** Mgr: M. Guzmán (Reported on 1395kHz). FM: 88.9MHz.
185) **Ondas del Orteguaza,** Florencia. (Reported on 1432kHz).
186) **Emisora Cultural,** Cr. 43 No. 47-96, Medellín. **L.P:** Dir: J. Montoya T. **D.Prgr:** 17.00-03.00 (Classical music). FM: 96.5MHz.
187) **Emisora Guadalajara,** Cr. 13 No. 5-84, Buga.
188) **Ondas del Guali,** Aéreo 536, Honda. **Te:** 1440. **L.P:** Mgr: F. Soto. V. by letter and Pennant.
189) **La Voz de Calarcá,** Aéreo 725, Calarcá. (Reported on 1414kHz).
190) **R. Bahía,** Aéreo 1771, Cartagena. **Te:** 13405. **L.P:** Mgr: E. Emiliani R.
191) **R. Reloj,** Aéreo 335, Manizales. **L.P:** Mgr: G. Aristizábal E.
192) **R. Magdalena,** Aéreo 1240, Santa Marta. **Te:** 3300. **L.P:** Mgr: R. Morales. FM: 96.5MHz. (Reported on 1428kHz).
193) **R. Pamplona,** Cr. 7 No. 4-92, Pamplona. **Te:** 420. **L.P:** Mgr: L. Aldana H.
194) **La Voz de Belalcázar,** Cr. 5 No. 5-81, Popayán.
195) **Ondas de Riohacha,** Aéreo 3, Riohacha. **L.P:** Mgr: J. I. Vives E.
196) **R. Tuluá,** Aéreo 130, Tuluá.
197) **Ondas de Ibagué,** Edif. Raad, Ibagué. **L.P:** Mgr: L. E. Ramirez R. V. by letter.
198) **R. Sogamoso,** Cr. 11 No. 10-05, Sogamoso (Reported on 1445kHz)
199) **Armonias del Ingruma,** Riosucio (Caldas).
200) **R. Sintonia,** Villa Maria.
201) **La Voz del Carare,** Vélez. **L.P:** Mgr: R. Correa P.
202) **R. Sincelejo,** Sincelejo. **Te:** 2072. **Cable:** Radiosincelejo. **L.P:** Mgr: G. Gómez P. FM: 97.3MHz.
203) **La Voz de Pamplona,** Cl. 5 No. 6-93, Pamplona.
204) **R. Fundación,** Fundación.
205) **Nuevo Continente,** Cr. 7 No. 13-27, Bogotá. **L.P:** Mgr: E. Páez E. FM: 91.7MHz.
206) **La Voz de la Amistad,** Aéreo 516, Pasto. **Te:** 2684. (Reported on 1462kHz).
207) **R. Ya,** Cl.50 No. 56C-11, Medellin. **Te:** 437028. **L.P:** Mgr: J. Restrepo.
208) **La Voz del Paraíso,** Cl. 6 No. 10-49, Cerrito. **Te:** 444. **L.P:** Mgr: R. Gómez P. (Reported on 1437kHz).
209) **La Voz de Honda,** Honda.
210) **R. Centinela,** Aéreo 221, Pereira. **Te:** 9901. **L.P:** Mgr: R. Ilián B. (Reported on 1475kHz). FM: 89.3MHz.
211) **R. Palonegro,** Lebrija. **D. Prgr:** 09.45-04.00.
212) **R. Quibdó,** Quibdó.
213) **R. San Diego,** Aéreo 14465, Bogotá. **L.P:** Mgr: C. J. Semeraro. **D.Prgr:** 11.00-05.00 (Soft background music). FM: 95.9MHz.
214) **R. Cumbia,** Aéreo 2647, Barranquilla. **L.P:** Mgr: I. Turek. **D.Prgr:** light orch. music. **Ann:** "Transmite R. Cumbia, un vinculo de amistad y de alegria".
215) **R. Tasajéro,** Cúcuta.
216) **R. Garzón,** Cl. 7, Cr. 7, Garzón. (Reported on 1480kHz).
217) **R. Boyacá,** Tunja.
218) **R. Calima, Darien (Valle).**
219) **R. Sumapaz,** Cr. 7 No. 5-29, Fusagasugá. **Te:** 2000.
220) **La Voz Katía,** Aéreo 4350, Medellin. FM: 90.9MHz.
221) **La Voz Panamericana,** Aéreo 432, Bucaramanga. **Te:** 27315. **L.P:** G. Ayala O. (Reported on 1505kHz).
222) **R. Estrella,** Aéreo 617, Armenia. **L.P:** Mgr: E. Campo Z. FM: 89.7MHz.
223) **R. Latina,** Aéreo 11279, Bogotá. **Te:** 481620. **L.P:** Mgr: H. Flórez. **D.Prgr:** Arabic: Tues, Thurs, Sat 01.00-01.30. FM: 93.9MHz.
224) **R. Minuto,** Aéreo 219, Barranquilla. **L.P:** Mgr: L. Ortega P. **D.Prgr:** 24 h (music & time). **Ann:** "R. Minuto de la hora . . . " (Reported on 1515kHz).
225) **R. Popayán,** Cr. 12 No. 4-27, Popayán. **Te:** 2409. **L.P:** Mgr: M. González M.
226) **Liceo Departamental,** Sonsón.
227) **R. Sevilla,** Cr. 50 No. 42-11, Sevilla. FM: 97.7MHz.
228) **R. Armero,** Cl. 11, Cr. 15, Armero. **Te:** 211. **L.P:** Mgr: C. Cifuentes M.
229) **R. Canoa,** Turbaco. **D.Prgr:** Light orch. music. **Ann:** "Yo soy Canoa, la esquina de la buena música". (Reported varying 1540-1550kHz).
230) **R. Sur Oeste,** Concordia.
231) **Emisora Mariana,** Aéreo 159, Manizales.
232) **La Voz del Petróleo,** Barrancabermeja. (Reported on 1542kHz.)
233) **R. Corp. Barraza,** Pto. Colombia. **L.P:** Mgr: P. Elias B.
234) **R. Magangué,** Aéreo 554, Magangué. **L.P:** Mgr: J. Raad. FM: 88.9MHz.
235) **Ecos del Quilichao,** Santander (Cauca).
236) **R. Fantasía,** Cr. 7 No. 22-44, Bogotá, FM: 88.9MHz.
237) **R. Parroquial,** Nemocón.
238) **R. Cundinamarca,** Tocaima.
239) **R. Espacial,** Aéreo 149, Tuluá. **L.P:** Mgr: E. Gómez H. (Reported on 1555kHz).
240) **R. Copacabana,** Cr. 30 No. 29-63, Medellín.
241) **R. Sensación,** Cr. 21 No. 21-49, Manizales. **L.P:** Mgr: G. Elorea G. FM: 90.1MHz.
242) **Voces Rovirenses,** San José de Miranda, Santander del Sur
243) **Armonias Zipaquireña,** Zipaquira.
244) **La Voz del Banco,** Aéreo 89, El Banco. (Reported on 1576kHz). FM: 91.5MHz.)
245) **La Voz de la Música,** Aéreo 3266, Medellín. **Prgr:** Soft background music.
246) **R. Zarzal,** Zarzal (Valle).
247) **R. Ciudad Milagro,** Edif. Santa Fé, Armenia. (Reported on 1590kHz). FM: 93.3MHz.

ECUADOR

L.T: GMT — 5 h—**Pr.L:** Spanish Quechua.

DIRECCION DE TELECOMUNICACIONES DEL ECUADOR
ADDR: Casilla 3066, Quito. **Cable:** Dirgentel—**L.P:** Dir. Eng: E. Marmol C.

ASOCIACION ECUATIORIANA DE RADIODIFUSION (AER)
ADDR: Luis Felipe Borja 505, Quito. **Te:** 522520—**L.P:** Pres: E. Cevallos C.

STATIONS: Short Wave: Call: H.C.—. * = inactive.

	Call	kHz	m	kW	Name and h of tr.
1)	EH3	2430	123.5	0.2	R. El Progreso Loja: 11.00-15.00, 17.00-20.00, 00.00-03.00.
2)	JX6	2470	121.5	1	R. Cultural Religiosa, Baños: 10.30-03.00.
3)	HW2	2490	120.5	0.45	R. Rey. Quevedo: 14.00-19.00, 21.00-04.00.
4)	RE1	3220	93.15	1.5	R. Nac. Espejo, Sto. Domingo Cds: 23.00-03.00.
5)	JH1	3240	92.59	0.2	R. Turismo, Otavalo: 12.00-14.00, 17.00-19.00, 23.00-03.00
6)	LM5	*3245	92.45	0.2	R.24 de Junio, Cañar
7)	MZ6	*3265	91.87	0.2	La Voz del Dorado, Pelileo
8)	VU2	*3275	91.60	0.2	La Voz de Urdaneta. Ricaúrte
9)	HA2	3320	90.34	1.5	Ondas Quevedañas, Quevedo: 23.00-03.00
10)	VA4	3340	89.82	10	La Estación de la Alegria, Esmeraldas: 12.00-05.00
11)	DR4	3355	89.42	0.2	R. Miramar, Bahia: 11.00-04.00
12)	DY4	3378	88.81	0.25	R. Iris, Esmeraldas: 11.00-05.00
13)	OT1	3390	88.50	1	R. Zaracay, Sto. Domingo Cds: 10.00-03.00
14)	KD5	*3515	85.35	0.2	R. Centro de Gualaceo
15)	YC4	3520	85.23	0.2	R. Escuelas Radiales, Lita: 11.00-04.00
16)	OS4	3570	84.03	0.5	La Voz del Rio Carrizal, Calceta: 11.00-05.45
17)	GS6	3615	86.00	0.4	R. Pillaro: 11.30-19.00, 21.00-03.30
18)	IE1	*3695	80.95	0.5	R. Cotacachi
19)	BH6	3755	79.90	0.4	R. Latacunga: 11.00-19.00, 22.00-04.00
20)	PZ1	*3815	78.64	0.3	R. Rumichacha, Tulcán
21)	WN1	3835	78.23	0.35	La Voz del Triunfo, Sto. Domingo Cds: 23.00-03.00
22)	SN6	3975	75.47	0.6	R. Sira, Ambato: 11.00-23.30, 01.00-04.00
23)	ER5	3985	75.28	1	Escuelas Radiofonicas Populares, Riobamba, 13.30-15.00, 18.30-05.00
24)	JA5	3995	75.19	0.35	La Voz del Rio Tarqui, Cuenca: 10.00-05.00
25)	AK2	4652	64.49	1	R. Difusora del Ecuador, Guayaquil: 10.45-05.00
1)	EH3	4725	63.49	10	R. Nacional Progreso, Loja: as 2430kHz
26)	BK2	4740	63.29	0.25	R. El Mundo, Guayaquil: 13.00-19.30, 21.45-04.05
27)	LJ6	4755	63.10	0.2	La Voz de Bolivar, Guaranda: 19.00-22.00, 23.00-04.00
28)	MX4	4770	62.89	0.4	R. Cenit, Portoviejo: 11.00-13.00, 15.00-04.30
29)	JF2	*4770	62.89	1	R. Guayaquil
30)	MQ1	4780	62.76	1	R. Atahualpa, Quito: 10.45-04.35
31)	FA4	4785	62.70	2	La Voz de Manabi, Portoviejo: 11.00-05.00
32)	VP2	4790	62.63	1	R. Sistema Atalya, Guayaquil: 13.30, 01.00-04.55
33)	AS4	4795	62.57	0.5	La Voz de los Caras, Bahia: 11.00-05.00
34)	SV5	4800	62.50	0.25	R. Amazonas, Cuenca: 11.00-20.00, 23.00-04.00
35)	LS3	4810	62.37	0.2	R. Coro Santa Cecilia, Loja
36)	RT6	4820	62.24	0.45	R. Paz y Bien, Ambato: 10.30-19.00, 22.00-03.00
37)	JS1	*4830	62.10	0.5	Ondas del Angel, El Angel
38)	AM4	4835	62.05	1	La Voz del Valle, Portoviejo: 11.00-13.00, 16.00-04.00
39)	RM3	4845	61.92	0.38	R. Cultural, Machala: 11.00-19.00, 00.00-05.00.
40)	CV3	4850	61.86	0.25	Ondas del Zamora, Loja: 11.00-03.00
41)	MA1	4855	61.79	0.35	R. Marafion, Quito: 12.00-03.00
42)	XX4	4865	61.66	1	R. dif. Cenit, Bahia de Caraquez: 11.00-03.35
43)	GM7	4870	61.60	5	R. Rio Amazonas, Macuma: 11.00-13.00, 23.00-01.00
44)	HE4	4875	61.54	3	La Voz de Esmeraldes: 11.00-13.00, 17.00-19.00, 00.00-06.00
45)	WE1	4880	61.48	1	R. Nac. Espejo, Quito: 24 h
46)	VS6	4904	61.18	0.42	La Voz de Saquisili: 12.00-17.30, 21.00-03.00
47)	MJ1	4910	61.10	5	Emis. Gran Colombia, Quito: 11.00-06.00
48)	AH3	4916	61.03	3	E. El Treboi, Zaruma: 23.00-03.00
49)	MP2	4920	60.98	0.2	La Voz de la Peninsula, La Libertad: 23.00-03.00
50)	RQ1	4923	60.94	5	R. Quito: 10.45-15.00, 17.00-18.00, 23.00-04.30
51)	CR1	4930	60.85	1	R. Casa de la Cultura, Quito: 11.30-13.00, 17.00-19.00, 00.00-03.15
52)	XZ1	4940	60.73	10	R. Nacional del Ecuador, Quito: 11.00-15.00, 16.30-19.30, 22.30-05.00
53)	AV3	4950	60.60	0.25	R. Luz y Vida, Loja: 11.00-14.00, 17.00-20.00, 00.00-03.00
54)	PH5	4960	60.48	1	La Voz del Chofer, Riobamba: 12.00-04.00
55)	GH1	4970	60.35	3	R. Tarqui, Quito: 10.45-04.00
56)	JC5	4980	60.24	0.25	Ondas Azuayas, Cuenca: 10.45-05.00
57)	SJ1	4990	60.12	1	R. Xavier, Quito: 11.00-15.00, 16.45-17.30, 22.00-03.00
58)	OB5	5025	59.70	3	R. Splendit, Cuenca: 11.30-04.00
59)	PS5	5030	59.64	0.5	Ondas Cañaris, Azogues: 11.00-14.00, 15.45-19.00, 21.45-04.00
60)	VC3	5035a	59.58	0.75	R. Centinela del Sur, Loja: 12.00-14.00, 17.00-03.00
61)	JP1	5050	59.41	1.2	R. Jesus del Gran Poder, Quito: 11.00-14.00, 22.30-03.00
62)	RP1	5055	59.35	0.5	R. Católica, Quito: 10.35-15.00 17.00-18.00, 22.00-03.00
63)	CP7	5060	59.29	0.25	R. Cenepa, Zamora
64)	DF1	5900	50.84		La Voz del Norte, Ibarra
65)	CV5	5950	50.42	0.3	La Voz de los Cuatro Rios, Cuenca: 11.30-04.00
66)	TR1	*5955	50.39	0.75	R. Equinoccial, Ibarra
67)	GE5	5965	50.29	0.2	R. Mundial, Riobamba: 12.00-14.00, 16.30-17.30, 23.30-04.00
68)	GB7	6010	49.92	2	R. Pastaza, Puyo
69)	EB4	*6015	49.88	0.5	R. Manta:
70)	NK3	6035	49.71	0.5	R. Cariamanga: 11.00-15.00, 17.00-19.00, 23.00-04.00
71)	JB	6050	49.50	30	La Voz de los Andes, Quito: 07.00-10.00, 10.30-04.30
72)	AC1	6060	49.50	0.35	La Voz de la Democracia, Quito: 11.30-04.30
73)	IW5	6070b	49.42	0.5	R. El Mercurio, Cuenca: 11:00-05.00
74)	DG2	6080	49.34	10	R. Bolivar, Guayaquil: 12.00-05.00
75)	UM6	6090	49.26	0.5	R. 11 de Noviembre, Latacunga: 12.00-04.00
76)	SP4	6100	49.18	1	La Voz del Volante, Portoviejo: 11.00-05.00
71)	JB	6130	48.94	30	La Voz de los Andes: 04.30-07.00
77)	FB2	*6130	48.94	0.25	R. Condor, Guayaquil
78)	PJ2	6170	48.62	0.25	R. Fluminense, Ricaurte: 23.00-03.00
79)	EH6	6195	48.43	1.5	R. Cosmopolita, Ambato: 12.00-03.30
80)	RM2	*9550	31.41	5	R. Universal, Guayaquil
71)	JB	**La Voz de los Andes:**			
	—	9645	31.10	30	04.30-07.00, 10.00-11.00
	—	9745	30.78	100	07.00-05.30
	—	11910	25.19	100	04.30-07.00
	—	11915	25.18	30/100	07.00-04.30
	—	15115	19.86	50/100	07.00-10.00, 11.00-17.00, 22.00-05.30
	—	15120	19.84	100	
	—	15325	19.58	100	04.30-07.00, 18.00-22.00
	—	17880	16.78	50	14.00-17.00, 18.00-22.00
	—	17890	16.77	50	22.00-04.30

a) reported on 5120kHz—b) reported using 2420kHz.

Medium Wave: Call: HC--, ° = Short Wave.

	Call	kHz	kW		Call	kHz	kW
81)	FA2	540	5	101)	PT5	790	0.3
82)	DG1	550	5	74)	DE2	°800	10
83)	RM2	560	10	102)	FV1	805	1
84)	RM1	570	1	103)	VT2	810	0.2
85)	SP1	590	1	4)	EE1	°825	1.5
86)	RL6	600	0.5	104)	GB2	825	1.35
25)	AJ2	°610	5	42)	CD1	°835	1
87)	RF3	625	0.3	105)	ET6	845	0.8
52)	XY1	°640	10	106)	AJ2	850	1
88)	RM4	650	2	61)	FF1	°860	1.2
89)	RF4	625	1	107)	OA6	865	0.4
90)	FM2	665	0.45	108)	BI2	870	0.5
57)	SJ1	°670	1	109)	NY2	870	5
32)	AU2	°675	10	110)	BO2	875	1
53)	VP2	°675	10	62)	RP1	°880	0.5
91)	WC1	680	0.2	111)	TL5	890	0.5
92)	RS2	695	1.75	112)	GC2	895	0.3
71)	JB1	°700	30	113)	RJ1	900	1.2
38)	AM4	°715	1	58)	EV5	°900	3
93)	AP4	715	1.3	67)	GR5	°910	0.2
94)	IC1	720	0.4	114)	RU3	914	0.2
29)	MB2	°730	10	115)	CM1	920	1.5
95)	SE4	735	0.25	116)	VL2	925	0.3
96)	BG1	740	1.5	117)	IM1	930	0.3
97)	CT2	750	0.5	118)	UE5	935	0.5
50)	RQ1	°760	5	119)	DE2	945	1
98)	MF2	770	1	120)	JM1	950	0.5
99)	RG4	780	0.3	121)	MC2	955	0.25
100)	AA1	785	0.2	122)	NC1	960	1

Ecuador

	Call	kHz	kW		Call	kHz	kW
13)	OT1	°965	2	172)	MS1	1295	0.3
123)	MB1	970	0.35	75)	VM6	°1295	0.2
124)	AW2	975	10	173)	DC2	1300	1
125)	JI5	980	0.5	45)	GB1	°1310	0.4
55)	GH1	°990	3	174)	LP3	1315	0.25
126)	EW2	995	5	175)	JD6	1320	0.25
127)	RV5	1005	1.5	176)	FR2	1325	3
128)	RC4	1010	0.7	177)	LW5	1330	0.45
129)	RS6	1015	0.75	178)	PX1	1335	0.3
130)	LV1	1020	0.6	179)	OF4	1340	2
131)	TO5	1027	0.25	36)	PB6	°1345	3
132)	RP2	1030	1	20)	PZ1	1350°	1
133)	CW1	1040	0.7	180)	PV2	1350	0.3
134)	AC6	1060	0.7	181)	HA2	1370	0.25
135)	RV3	1065	1.5	182)	CM6	1375	3
136)	VP1	1070	0.5	183)	VM2	1375	0.5
137)	GB6	1075	0.5	184)	JN1	1385	0.5
138)	FD2	1080	5	65)	CV5	°1390	0.3
139)	AA4	1085	1	44)	VE4	°1395	3
140)	MG1	1090	0.35	185)	FL2	1400	0.2
141)	RR6	1095	0.4	186)	BS4	1400	0.3
142)	EM4	1100	0.3	47)	MJ1	°1410	1
143)	RR5	1100	1.5	187)	CV6	1420	0.3
144)	RP6	1105	0.5	51)	BX1	°1430	10
145)	EG1	1111	0.5	188)	OV5	1440	2
146)	LA2	1115	0.2	189)	DF1	1440	0.6
147)	EB1	1120	1	54)	SC5	°1445	0.2
43)	GM7	°1120	0.3	190)	AQ2	1450	0.25
148)	AO5	1120	0.25	191)	GM1	1460	0.25
149)	PV6	1125	0.3	192)	ET4	1465	0.2
31)	FA4	°1130	1	193)	EC1	1470	0.36
150)	RT1	1130	0.3	194)	LT2	1470	1
77)	FB2	°1140	0.25	195)	EJ3	1475	0.22
151)	RG1	1145	1.2	196)	JV4	1480	1
152)	CZ5	1150	0.3	197)	RM6	1480	1
28)	DW4	°1155	0.5	30)	MQ1	°1490	1
153)	VR3	1160	2	198)	HG2	1495	0.5
154)	UE6	1165	0.5	199)	WN5	1496	0.4
155)	VJ5	1170	0.25	200)	RQ1	1500	1
156)	EA5	1175	0.4	60)	LC3	°1505	2
157)	LR1	1180	0.5	201)	AO2	1510	1
158)	BF2	1190	0.3	202)	VR1	1520	1.2
159)	CS1	1195	0.5	8)	VU2	°1530	0.2
160)	RF6	1195	0.25	59)	OC5	°1530	0.21
73)	RM5	°1200	2	203)	MH6	1535	0.5
161)	RQ2	1205	0.3	18)	IE1	°1540	0.5
162)	CU1	1210	0.4	16)	OS4	°1540	0.25
163)	SF5	1215	0.2	204)	AA3	1545	0.25
26)	BJ2	°1220	0.25	79)	EJ6	°1550	0.5
22)	JM6	°1225	0.6	205)	AD5	1550	0.25
164)	RI1	1230	0.22	206)	TR3	1555	0.5
165)	MV5	1235	0.2	207)	CS2	1560	0.35
166)	LA5	1240	0.5	208	RS4	1560	0.25
167)	PA1	1245	1	209)	AB3	1570	0.25
168)	RB2	1250	1	210)	EA5	1580	0.35
169)	EM1	1255	1	41)	AP1	°1570	0.35
21)	WN1	°1260	0.35	211)	AI6	1580	0.3
56)	JE5	°1265	0.25	212)	RJ4	1580	0.2
80)	CB2	°1270	0.25	213)	RZ1	1590	0.5
170)	UM2	1270	0.25	214)	BM2	1590	0.25
72)	AB1	°1280	0.35	215)	PJ2	1590	0.36
171)	VN4	1285	1	216)	QT6	1595	0.3
24)	JA5	°1290	0.5	217)	FM2	1600	0.3

Short Waves:

1) Av. Gran Colombia 101-102, Loja. **L.P:** Dir: E. Herrera G.
2) Baños. **L.P:** Dir: R. Piñaherrera. **V.** by letter.
3) Ricaurte 271, Quevedo. **L.P:** Dir: E. Muñoz.
4) Plaza Central, St. Domingo de los Colorados. **Te:** 13477. **L.P:** G. V. Lippke. Dir. Tec: L. Rivera. **D.Prgr: N:** 12.30. **Ann:** "Estaciones de la R.N.E, eslabon de la Gran Cadena Radial, Amarillo, Azul y Rojo del Ecuador, R. Nac. Espejo de Sto. Domingo de los Colorados". **V.** by letter.
5) 31 de Octubre s/n, Otavolo. **L.P:** Dir: J. Vivar.
6) Cañar. **L.P:** Dir: L. Manrique.
7) Pelileo. **V.** by letter. Recordings accepted.
8) Ricaurte. **L.P:** Dir: C. Casal M.
9) 7 de Octubre 640, Quevedo. **Te:** 330. **L.P:** Dir. Gen: H. Alvarado P. Dir: D. Espinel de Alvarado. Dir. Tec: G. Bonilla y F. Simons. Dir. Prgr: R. Rey (Official freq. 3308kHz). **V.** by QSL-card. Recordings accepted.
10) Ca. Bolivar 831, Esmeraldas. **L.P:** Dir. Gen: J. C. Plaza. **V.** by letter.
11) Bahia. **L.P:** Dir: W. Delgado.
12) Cas. 142, Esmeraldas. **L.P:** Dir: D. Alvaraz T. **V.** by letter.
13) Edif Hualpa Alvarez, St. Domingo de los Colorados.
14) Parque 10 de Agosto, Gualaceo. **L.P:** Dir: H. Rodriguez.
15) Campamento Lita.
16) Ca. 10 de Agosto 308, Calceta. **L.P:** Dir: O. Valasques A. **V.** by letter.
17) Urbina y Sucre, Pillaro. **L.P:** Dir: G. Salazar.
18) 10 de Agosto s/n, Cotacachi. **L.P:** Dir: L. A. Paz.
19) Terminal de la Ca. Hnas, Pasmiño. **L.P:** Dir: B. Muños.
20) Cas. 42, Tulcán. **L.P:** Dir: E. Cabezas. Dir. Tec: A. Guerron. **D.Prgr: N:** 12.30, 17.45, 23.30. **Ann:** "Escuchan R. Rumichacha desde Tulcán, Ecuador, Cultural, Musical y Deportiva". **V.** by letter and QSL-card. Recordings accepted.
21) Plaza Principal, Sto. Domingo de los Colorados. **L. P:** Dir: M. M. Yanetz. **V.** by letter. (Official freq. 5995kHz).
22) Mera 315, Ambato. **L.P:** Dir: J. Mancero.
23) Apt. 4755, Riobamba. **Te:** 2625. **L.P:** Dir. Gen: R. Velóz. Dir. Tec: W. Luna. Dir. Prgr: J. E. Arellano. **D.Prgr: N:** 17.00, 23.00, 01.00. **Ann:** "En la banda de 75 metros y por 3985kHz, transmite Escuelas Radiofonicas Populares, la primera emisora cultural por la dignificación del campesino ecuatoriano". **V.** by letter. Recordings accepted. **F.PL:** 10kW on 5000 or 5020kHz.
24) Lamar y Montalvo, Cuenca. **L.P:** Dir: M. Pulla C.
25) P.O. Box 4144, Guayaquil. **Cable:** CRE. **L.P:** Dir. Gen: R. Guerrero V. Dir. Tec: J. Magen. **D.Prgr: N:** every h on the h. **V.** by letter. Recordings accepted.
26) 9 de Octubre 308, Guayaquil. **L.P:** Dir: G. Vergara J.
27) Garcia Moreno 28, Guaranda. **L.P:** Dir: J. Alarcon.
28) P.O. Box 4065, Sucre, Portoviejo. **L.P:** Dir: W. Delgado. **V.** by letter.
29) Cas. 5169, Guayaquil. **FM:** 97MHz.
30) Apt. 3213, Quito. **Te:** 12385. **Cable:** Rahualpa. **L.P:** Dir. Gen: G. Maldonado. Dir. Tec: L. Calderon. Dir. Foreign Rel: Miss L. Rivadeneira. **D.Prgr:** mw: 10.45-04.35. **N:** 11.00, 18.00, 19.00 23.00, 01.00, 03.00 and every 30 min's from 11.00-04.30 (on all st's). **Ann:** "Les habla R. Atahualpa, emisora matriz del Circuito HCMQ, transmite en 1490kc, canal peferencial y 4780kc, canal nacional, desde Quito, capital del Ecuador". **V.** by letter.
31) Sucre 640. Portoviejo. **L.P:** Dir: C. Chavez C.
32) Cas. 204, Guayaquil. **L.P:** Dir: V. Paladines. Dir. Tec: F. Casal M. **D.Prgr: N** every h on the h. **Ann:** "Sistema de Emisoras Atalaya, HC2VP Onda Larga, HC2AU Onda Corta, 95MHz FM". **V:** by letter. Recordings accepted.
33) Malecón 904, Bahia. **L.P:** Dir: A. E. Nevares.
34) Gabriel Ullauri 360, Cuenca. **L.P:** Dir: A. Vega.
35) Loja.
36) Cas. 94, Ambato. **Te:** 2120. **L.P:** St. Mgr: P. C. Uria S. Dir. Tec: A. Rivadeneira. **D.Prgr: N:** 14.00, 17.30. **Ann:** "Radio Paz y Bien, la Voz Católica del Tungurahua". **V.** by letter. Recordings accepted.
37) Apt. 16, El Angel. **L.P:** Dir: J. Salazar.
38) Cordova ent. Ricaurte y Chile, Portoviejo.
39) 9 de Mayo, Machala.
40) 24 de Mayo, Loja. **L.P:** Dir: C. Valarezo.
41) Venezuela 872, Quito: **L.P:** Dir: A. Placencia.
42) Bahia de Caraquez.
43) Macuma. **L.P:** Dir: G. Molina.
44) Cas. 108, Esmeraldas. **Te:** 1106. **L.P:** Dir. Gen: H. A. Endara E. Dir. Tec: Ing. Horvath. **D.Prgr: N:** 12.00, 17.00, 00.30. **Ann:** "La Voz de Esmeraldas, La Voz del Pueblo", **V.** by letter. Recordings accepted.
45) Esmeraldas 865, Quito. **Ann:** "R. Nacional Espejo la primera y mas potente emisora del país". **V.** by QSL-card.
46) Carrera Barreno 7, Saquisili. **L.P:** Dir: A. Mena H.
47) Cas. 2246, Quito. **Te:** 211670. **Cable:** Emigrancolombia. **L.P:** Dir. Gen: E. Cevallos. Dir. Tec: F. Simon. **D.Prgr: N:** Every h on the h. **Ann:** "Emisoras Gran Colombia, La Voz deportiva de la Capital". **V.** by letter. Recordings accepted.
48) Club Deportivo Trebol, 26 de Noviembre, Zaruma. **V.** by letter.
49) La Libertad. **L.P:** Dir: M. Pinargote.
50) Apt. 57, Quito. **Te:** 210151. **L.P:** St. Mgr: L. Ponce M. Dir. Tec: A. Horvath. **D. Prgr:** mw: 10.45-04.30. **N:** 11.00, 12.30 and every h 16.00-03.00, 03.30. **Ann:** "R. Quito, La Voz de la Capital, 760kc onda larga, 4923kc banda de 60m ondas cortas, desde Quito, Ecuador en la mitad del mundo". **V.** QSL-card or letter. Recording accpted.
51) Apt. 67, Quito. **D.Prgr: N:** 11.45, 03.00. **Ann:** "Esta es R. Difusora de la Casa de la Cultura Ecuatoriana, que transmite desde sus estudios en la ciudad de Quito". **V.** by letter.
52) P.O. Box 1316, Quito. **Te:** 216998. **D.Prgr:** mw: 11.00-19.30, 23.00-05.00. **N:** 12.00, 18.00, 03.00. **For Tourists:** 04.00. **Ann:** "En transmisión Radiodif. Nacional del Ecuador, Voz oficial del estado Ecuatoriano 640kc onda nacional, 4940kc onda internacional, desde Quito, Ecuador, en la mitad del mundo". **Int-Sig:** Vibraphone. **V.** by letter. Recordings accepted. **F.Pl:** 100kW (Quito).
53) Loja. **L.P:** Dir: J. Armijos. **V.** by letter.
54) Tarqui 58, Riobamba.
55) Cas. 2558, Quito. **Te:** 11540. **Cable:** Ratar. **V.** by letter.
56) Cas. 4980, Cuenca. **Te:** 3911. **L.P:** Dir: A. Cardozo. Dir. Tec: O. Espinoza. **D.Prgr: N:** 11.00, 13.30. **Ann:** "Ondas Azuayas, las estaciones de radio muy moderna y potente del sur del país y la primera en el sur Ecuatoriano". **V.** by letter.
57) Benalcazar 478, Quito. **L.P:** Dir: J. Urarte.
58) I Ordoñez y Galo de las Peñas, Cuenca.
59) 3 de Noviembre y Rivera, Azoguez. **D. Prgr: N:** 11.30, 02.00, 03.00. **Ann:** "Ondas Cañaris en sus dos frecuencias". **V.** by letter. Recordings accepted.
60) Correos 196, Loja. **Te:** 211. **L.P:** St. Mgr: M. V. de Coronel. Dir. Tec: F. E. Coronel. **D.Prgr: N:** 12.00, 18.00 **Ann:** "R. Centinela del Sur transmite desde la ciudad de Loja en la República del Ecuador Amazónico". **V.** by QSL-card or letter. Recordings accepted. **F.Pl:** 5kW.
61) Convento de S. Francisco, Quito. **L.P:** Dir: F. Fernandez.
62) Ca. Imbabura 1223, Quito. **Te:** 10208. **L.P:** Dir: Dr. M. A. Rojas. Dir. Tec: L. Calderon.
63) Zamora. **L.P:** Dir: E. Herrera.
64) Ibarra.
65) Gran Colombia 378, Cuenca. **L.P:** Dir: D. Pinos.
66) Velasco 333, Ibarra. **L.P:** Dir. D. de Teran.
67) Apt. 1244, Riobamba. **Te:** 2101. **L.P:** Dir. Gen: G. Encalada R. **V.** by QSL-card. Re. in Sp. E. Recordings accepted.
68) Puyo.
69) Apt. 4869, Manta. **L.P:** Dir: E. Bowen. **D.Prgr: N:** 12.30, 17.00, 23.00. **Ann:** "Transmite R. Manta, con sus estaciones . . . la mas antigua y potente emisora del puerto, desde Manta, Ciudad de turismo y primer puerto maritimo en la Provincia de Manabi". **V.** by QSL-card or letter.
70) Cariamanga. **L.P:** Dir: L. Cabezas F.

71) LA VOZ DE LOZ ANDES (HCJB)

ADDR: Casilla 691, Quito. **Cable:** Vozandes (USA Office: Voice of the Andes, Box 691, Miami, Florida 33147). **L.P:** Prcs: A. Van Der Puy; Assoc. Radio Dir: D. R. Findlay. Dir Sp. Sce: E. Romero. Dir. Eng. Sce: J. Robertson. Engineering Dir: F. Woodburn.

HOME SCE. in Spanish: 11.00-04.00.
11.00-14.00 on 15115kHz; 11.00-02.00 on 700/6050/9745/11915kHz; 02.00-04.00 on 700/6050kHz—**N:** W 11.20, 12.30, 13.30, 14.30 (exc. Sat), 15.30, 16.30, 17.45, 19.30, 20.30, 21.30, 22.30, 23.30, 01.30, 02.30, 03.55. Sun 11.20, 12.30, 13.30, 17.50, 01.30, 02.30, 03.55.

INTERNATIONAL SERVICE

I = Europe; II = New Zealand/Australia; III = Japan; IV = So. Pacific/Caribbean; VI = So. America; VII = Americas; VIII = Jamaica; IX = Brazil; Freq's in bold types = 100kW.

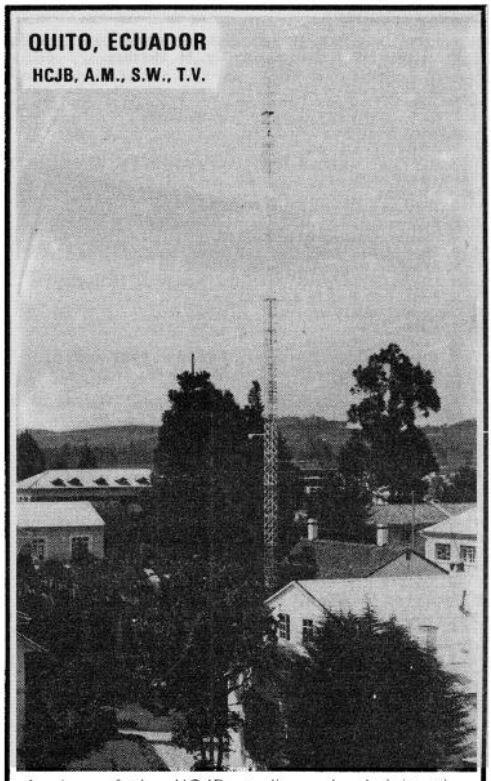
English	Area	kHz/Beams
07.00-10.00*	II	6050(228°), **9745**(220°), 11915(220°)
07.00-10.00*	I	15115(40°)
14.00-15.30**	VII	
14.00-16.00**(Sun)	VIII	**15115**(345°), 17880(345°)
14.00-16.30**(Sat)		
18.45-20.00°	I/V	**15325**(40°), 17880(40°)
21.00-21.30°	I	**15325**(40°), 17880(40°)
23.30-24.00‡	I/V/VII	**15115**(40°), 17890(345°)
02.00-04.30†	VII	9745(165°/345°), **11915**(345°), 15115(345°)
04.30-05.30†	VII	15115(345°)
French		
10.00-10.30	V	6050(32°)
18.30-18.45	I	15325(40°), 17880(40°)
German		
06.00-06.30	I	6130(32°), 9645(40°), 11910(40°), 15325(40°)
20.00-20.30	I	**15325**(40°), 17880(40°)
23.00-23.30	IX	**15115**(140°), 17890(345°)
00.30-01.00	IX	17890(140°)
Japanese		
12.00-12.30	III	9745(165°/345°), **11915**(345°)
22.00-22.30	IX	**15115**(140°), 17890(140°)
Portuguese		
00.00-00.30	IX	**15115**(140°), 17890(140°)
01.00-01.30	IX	17890(140°)
Quechua		
10.30-11.00	VI	700(nd), 6050(180°)
16.30-17.00(Sat)	VII	700(nd), 6050(180°) 9745(140°), 11915(140°)
18.00-18.30(Sun)		9745(140°), 11915(140°)
Russian		
04.30-05.30	I	6130(32°), 9645(40°) 11910(40°)
10.30-11.00	IV	9745(165°/345°), **11915**(345°)
16.00-17.00(Sun)	I/VI	15115(140°), 17880(40°)
22.30-23.00	VII	**15115**(140°), 17890(345°)
Scandinavian		
05.30-06.00	I	6130(32°), 9645(40°) 11910(40°), 15325(40°)
20.30-21.00	I	**15325**(40°), 17880(40°)
Spanish		
06.30-07.00	I	6130(45°), 9645(40°), 11910(40°), 15325(40°)
11.00-14.00	VII	15115(165°/345°)
11.00-02.00	VI	700(nd), 6050(180°), 9745(165°/345°), 11915(345°)
21.30-22.00	I	**15325**(40°), 17880(40°)
00.30-01.45	VII	**15115**(345°)
02.00-04.00	VII	700(nd), 6050(180°)

*) "Southern Cross Salute", **) "Morning in the Mountains", °) "Quito Calling", ‡) "Caribbean Call", †) "Ecuadorian Echoes".

NEWS: English: 14.02, 23.32 (exc. Mon), 02.00 (W exc. Fri); 05.00 (exc. Sun/Mon/Tues); **Swedish:** Thurs 18.02, 20.32, Fri 05.32; **Japanese:** 22.02; **Spanish:** see Home Sce.

DX-Party Line: 1st and 3rd Mon/Tues of the month at 21.00 (to Europe) & 02.30 (to the Americas), 1st and 3rd Wed of the month 09.30 (to So. Pacific)—**Mbg.** (English): Thurs 02.30 (to the Americas), 09.30 (to Australia/New Zealand) — **Time Sig:** Automatically on h and half h. Three short tones followed by a long tone at the exact min.

ANN: E: "This is radio station HCJB located near the line of the equator with studios in the capital city of Quito in the republic of Ecuador. We are serving our internat. audience on the 19, 25 znd 31 m.b. The time in Quito is... the same as... GMT. This is R. St. HCJB, Quito, Ecuador, So. America"—**V:** listeners reports are wanted, these are studied by our engineers. If requested they are answered by QSL-card, in other by letter—**PUB:** Int. prgr: sched. free on request. "Call of the Andes" magazine free to those requesting it from: HCJB, Box 691, Miami, Fla. 33147, USA. Sched. of Spanish prgr's on request from Casilla 691, Quito.
Operated by the missionary org: The World Radio Missionary Fellowship Inc. No comm. adv; Public sce. and ann. of cultural activities accepted free of charge—**FI:** Supported by voluntary gifts from evangelical Christian groups and "share-the-cost" plan.



A view of the HCJB studio and administration complex with microwave tower and antennas.

PROGRAMMING AROUND THE CLOCK AND AROUND THE WORLD.
9 LANGUAGE DIVISIONS,
14 LANGUAGES:
Danish, English, French German, Greek, Japanese, Norwegian, Polish, Portuguese, Roumanian, Quechua, Russian, Spanish, Swedish

Medium Wave, TV, Shortwave
Responses from more than 118 Countries
Transmitting on 16, 19, 25, 31, 49 meter bands
TV Programming Daily in Spanish

FOR COMPLETE BROADCAST SCHEDULE, write P.O. 691, Quito, Ecuador

HCJB — The VOICE of the Andes
HCJB TV — The WINDOW of the Andes

72) Apr. 288, Quito. **L.P:** Dir: E. Cevallos.
73) Padre Aguirre 757, Cuenca. **L.P:** Dir: M. Merchan.
74) Km13 via Daule, Guayaquil.
75) Quito 20161, Latacunga.
76) Morales 543 y Colón, Portoviejo.
77) F. Garcia Avilés 613, Guayaquil: 09.00–06.00.
78) Ricaurte. **V.** by letter. Re. in Sp.
79) Bolivar 1807, Ambato. **V.** by letter.
80) Cas. 5177, Guayaquil. **L.P:** Dir: O. Arraba E. **FM:** 90MHz. **V.** by QSL-card and letter.

Medium Waves:

81) **R. Tropicana,** Guayaquil: 11.00-06.00.
82) **R. Ecuatoriana,** Apt. 2832, Quito: 10.45-05.00.
83) **R. Mambo,** Guayaquil: 11.00-05.00.
84) **R. Musical,** Cas. A 57, Quito: 24 h.
85) **R. Minutera,** Flores 846, Quito: 11.00-05.00.
86) **R. Libertador,** Borrero 7, Saquisili: 12.00-18.00, 18.30-03.00.
87) **R. Fenix,** P.O. Box 23, Zaruma.
89) **Canal Manabita,** Portoviejo.
88) **R. Vision,** Manta.
90) **R. Ventanas,** Ventanas.
91) **R. Cristóbal Colón,** Pinampiro: 12.00-16.00, 00.00-03.00.
92) **R. Sucre,** Via Daule, Guayaquil: 12.00-04.00.
93) **La Voz de Portoviejo,** Portoviejo.
94) **R. Municipal,** Garcia Moreno y Espejo, Quito: 17.00-19.00, 21.00 -04.00.
95) **R. Libertad,** Atahualpa 222, Chone: 24 h.
96) **R. Sport,** Esmeraldas 865, Quito: 11.00-06.00.
97) **R. Centenario,** 1 de Mayo 104, Guayaquil: 11.00-03.00.
98) **R. La Prensa,** Boyaca y 9 de Octubre, Guayaquil: 11.00-03.00.
99) **R. Umina,** Carchi ent. G. Moreno y Espejo, Manta: 10.30-04.00.
100) **R. Noticia,** Oriente 337, Quito: 17.00-20.00, 00.00-04.00.
101) **La Voz del Perpetuo Socorro,** Apt. 63, Cuenca: 12.00-04.00
102) **R. Canal Tropical,** Cas. 57A, Quito: 11.00-04.00.
103) **R. Atalaya,** El Milagro: 23.00-03.00.
104) **R. Espejo,** Guayaquil.
105) **R. Tricolor,** Edif. Cronica, Ambato: 10.45-03.00.
106) **La Voz del Santisimo,** J. Pio Montufar 1007, Guayaquil: 11.00-13.30, 23.30-03.00.
107) **R. 12 de Febrero,** 9 de Octubre, Puyo: 11.00-14.00, 16.00-19.00, 23.00-23.00.
108) **R. Ecos del Agro,** Quevedo. **L.P:** Dir: J. Jalón F.
109) **R. Cristal,** P.O. Box 5662, Guayaquil. **D.Prgr:** 09.00-05.00. **F.Pl:** 20kW. **V.** by letter.
110) **R. Espectaculo,** Guayaquil. **L.P:** Dir: D. E. Carrera.
111) **Ondas Chimborazo,** Pichinga 128, Riobamba: 11.00-05.00.
112) **La Voz del Rio Guayas,** Boyaca 1319, Guayaquil: 14.00-04.00.
113) **R. Gemas,** Venezuela 712, Quito: 10.50-05.05.
114) **Ondas Orenses,** Rocafuerte y Paéz, Machala: 13.00-03.30.
115) **R. Colón,** Quito: 16.00-20.00.
116) **La Voz Liberal,** Cas. 5169, Guayaquil: 24 h.
117) **La Voz Imbabura,** Palacio Municipal, Ibarra: 12.00-19.00, 20.00-06.00.
118) **Union Evangélica Misionera,** Caserio Majipamba, Colta: 11.00-24.00.
119) **R. Ifesa,** Rumicacha y Culicuchima, Guayaquil: 13.30-04.00.
120) **R. Un Mundo Mejor,** Convento Parroquial, Atuntaqui: 14.00-17.30, 23.00-02.30.
121) **La Voz de Los Rios,** Barona 709, Babahoyo: 23.00-03.00.
122) **R. Cosmopolita,** Ambato 902, Quito: 13.00-03.00.
123) **R. Continente,** Oviedo 543, Ibarra: 11.30-20.00, 22.00-04.00.
124) **Ondas del Pacifico,** Clemente Ballen 652, Guayaquil: 11.30-05.00.
125) **R. El Prado,** New York s/n, Riobamba: 11.00-04.30.
126) **R. Suceso,** P.O. Box 1009, Guayaquil: 12.00-04.00.
127) **R. Visión,** 12 de Abril 1891, Cuenca: 11.45-04.00.
128) **R. Cenit,** P. Solano e Imbabura, Manta: 11.00-04.00.
129) **R. Surcos,** Palacio Episcopal, Guaranda: 17.00-19.00, 22.00-04.00.
130) **R. El Sol,** Guayaquil y Bolivar, Edif. Rojas, Quito: 11.00-05.00.
131) **La Voz de Pueblo,** Ayacucho 4, Riobamba: 13.00-04.00.
132) **R. Rocafuerte,** Via Daule, Guayaquil: 12.00-04.00.
133) **La Voz del Valle,** Garcia Moreno 534, Machachi: 11.30-18.30, 22.00-03.30.
134) **Ecos del Pueblo,** Plaza Principal, Saquisili: 12.00-19.30, 22.00-03.00.
135) **R. El Oro,** Juan Montalvo 821, Machala: 12.00-04.00.
136) **R. Libertad,** Salvador 209, Quito: 11.00-03.00.
137) **R. Nac. Espejo,** Bolivar 1527, Ambato: 11.00-05.00.
138) **R. Noticia,** Cas. 5041, Guayaquil: 12.00-05.00.
139) **R. Ecos,** Manta.
140) **R. Fantasia,** Venezuela 541, Quito: 11.00-01.00.
141) **R. Rey,** Quito 20161, Latacunga: 12.00-04.00.
142) **R. Costa Azul,** Pedro Gual, Portoviejo: 11.00-05.00.
143) **R. Reloj,** Lamar 718, Cuenca: 13.00-04.00.
144) **R. Pelileo,** Pelileo: 11.30-13.30, 23.30-03.30.
145) **R. Exito,** Benalcazar 675, Quito: 11.00-05.00.
146) **R. América,** Luque 910, Guayaquil: 11.00-05.00.
147) **Ecos del Montufar,** San Gabriel.
148) **La Voz de Tomebamba,** Cas. 269, Cuenca: 11.45-04.00.
149) **R. Centro,** Ambato: 11.00-05.00.
150) **T. Tricolor,** Gonzáles Suárez s/n, Mira: 10.30-18.00, 22.00-04.00.
151) **R. Nuevo Mundo,** Venezuela 1070 y Olmedo, Quito: 10.45-04.00.
153) **La Voz de Riobamba,** Véloz 112, Riobamba: 12.00-04.00.
153) **R. Via,** Machala: 11.00-03.00
154) **R. Runatacuyak,** B. Quevedo: 21.00-23.00
155) **R. Central,** Roma 26 y Olmedo, Riobamba: 11.00-23.30, 02.00-04.00
156) **Ecos del Azuay,** Cuenca: 11.00-05.00
157) **R. Central,** Recoleta 112 y Maldonado, Quito: 11.00-05.00
158) **R. Excelsior,** P. Mancayo 934 y Vélez, Guayaquil: 13.00-04.00
159) **R. Turismo,** Bolivar 539, Sangolqui: 11.00-18.00, 22.00-03.00
160) **R. El Sol,** Pujili.
161) **La Voz del Tropico,** 7 de Octubre 3008, Quevedo: 12.30-04.00
162) **R. Ecos,** Cas. 1020, Quito: 11.00-05.00
163) **R. Colegio San Felipe,** Colegio S. Felipe, Riobamba: 17.15-19.00.
164) **Centro Radiofonica de Imbabura,** Maldonado 473, Ibarra: 11.30-03.30.
165) **La Voz del Austro,** Loja 967, Cuenca: 11.00-04.00
166) **R. Riobamba,** Véloz 59, Riobamba: 12.00-04.00
167) **R. Metropolitana,** Amazonas 538, Quito: 11.00-04.30
168) **La Voz del Litoral,** Junin 206, Guayaquil: 11.00-04.00
169) **Ondas Charchenses,** Cas. 30, Tulcan: 11.00-03.00. **V.** by letter. **F.Pl:** 5kW.
170) **R. Universal,** Guayaquil.
171) **La Voz del Sur de Manabi,** Nonoa y Santisteban, Jipijapa: 11.00-04.00
172) **R. Pacifico,** Sucre 10 de Agosto s/n, San Isidro: 11.00-19.00, 22.00-04.00
173) **R. Cenit,** Apt. 4065, Guayaquil: 11.00-04.00
174) **La Voz de El Oro,** Pasaje: 13.00-19.00, 23.00-04.00
175) **R. Continental,** Cas. 368, Ambato: 11.00-03.45
176) **R. Guayaquil,** Cas. 47, Babahoya: 11.00-19.00, 23.00-04.00. **V.** by letter.
177) **R. Canal 1330,** Cuenca: 12.00-03.00
178) **R. Victoria,** Esmeraldas 865, Quito: 11.00-06.00
179) **La Voz de Chone,** Chone: 11.15-04.30
180) **R. Reloj,** El Barquito Puente 5 de Julio, Guayaquil: 24 h
181) **La Voz del Rio Quevedo,** 24 de Febrero, Quevedo: 11.00-14.00, 16.00-20.00, 22.00-05.00
182) **La Voz del Colegio Mera,** Cas. 91, Ambato: 12.00-03.00. **V.** by letter.
183) **La Voz del Milagro,** El Milagro: 12.00-05.00
184) **R. El Tiempo,** Guayaquil 1242, Quito: 11.00-06.00
185) **R. Continental,** Colón 2005, Guayaquil: 12.00-19.00, 22.00-04.00
186) **R. Tropical,** 25 de Mayo, Manta: 10.30-04.00
187) **La Voz de Salcedo,** Moreno 37, Salcedo: 12.00-14.00, 17.00-19.00, 23.00-03.00
188) **Ondas del Volante,** Azuay 317, Azoguez: 11.00-19.00, 22.00-04.00
189) **La Voz del Norte,** Oviedo 814, Ibarra: 11.30-17.30, 22.00-04.00
190) **R. Nueva Ortiz,** Esmeraldas 1912, Guayaquil: 12.00-04.00
191) **R. Reloj,** Esmeraldas 865, Quito: 11.00-06.00
192) **R. El Triunfo,** Sucre y 9 de Octubre, Esmeraldas: 11.00-05.00
193) **Ecos del Cayambe,** Cayambe: 10.30-14.00, 16.00-04.00
194) **La Voz de Babahoyo,** Babahoyo.
195) **Ecos de Jambeli,** Gonzalo Cordiva 548, Puerto Bolivar: 11.00-04.00
196) **La Voz de Jipijapa,** Jipijapa: 24 h
197) **R. Musical,** Ambato.
198) **R. Central,** Vinces: 11.00-21.00, 23.00-05.00
199) **R. Puruha,** 10 de Agosto, Riobamba: 12.00-04.00
200) **R. Otavalo,** Modesto Jarmillo y Salinas, Otavalo: 13.00-18.00, 23.00-03.00
201) **R. Exito,** Guayaquil.
202) **R. Cordilera,** Apt. 1003, Quito: 11.30-04.00
203) **Org. Radiofonica del Cotopaxi,** Edif. Ramos, Latacunga: 12.00-15.00, 16.00-20.00, 22.00-04.30
204) **R. Gauzanama,** Gauzanama.
205) **La Voz del Valle,** Sta. Isabel.
206) **La Voz del Guabo,** 11.00-13.00, 17.00-19.00, 23.00-05.00
207) **Centro Radiofonico Sideral,** Daule: 13.00-05.00
208) **R. Sensacion,** Av. Simon Plata Torres, Quininde: 11.00-05.00. **F.Pl:** sw(81m).
209) **Ondas de Paltos,** Catacocha.
210' **Ecos del Portete,** Girón.
211) **R. La Voz de los Llanganates,** Barrio el Censo, Pillaro: 11.00-14.00, 17.30-20.00, 23.30-02.00
212) **R. Juventud,** El Carmen: 11.00-17.00, 23.00-05.00
213) **Escuelas Radiofonicas,** Tabacundo.
214) **R. Panamericana,** Naranjal.
215) **Ondas de la Libertad,** Libertad.
216) **R. Quero,** Quero.
217) **R. Consular,** El Empalme: 11.30-15.00, 18.00-22.00, 01.00-03.30

FALKLAND ISLANDS

L.T: GMT – 4h (April-Sept: GMT – 3h) — **Pr.L:** English.

FALKLAND ISLAND BROADCASTING SERVICE (Gov.)

ADDR: Broadcasting Studios, Stanley. **Cable:** Broadcasts. **Te:** 90.
STATIONS: 536kHz 55.9m 5kW — 3958kHz 75.79m 0.5kW.
HOME SCE: W 22.45 (Sat 21.30) – 01.00 (Sat 02.00); Sun 21.45-01.30. 00.00 (April-Sept). **Local N:** Fri 23.35 – **ANN:** "This is the Falkland Islands Broadc. Station" — **B,** by letter.
N(BBC): W 11.00 (Oct-March), 13.00 (April-Sept), 23.00 (Oct-March),

GUIANA

L.T: GMT – 3¾ h — **Pr.L:** English.

GUYANA BROADCASTING CO. Ltd. (Comm)

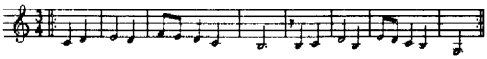
ADDR: P.O. Box 561, Georgetown. **Te:** 2691. **Cable:** Broadcast.
L.P: Gen. Mgr: E. A. D. Saul A.M.I.E.R.E. Eng-in-Charge: J. Kerr. Sales Mgr: U. A. Gouveia. Dir. Prgr: R. A. Khan.
STATIONS: R. Demerara (G.C: 58.05W/06.49N) 760kHz 395m — 3265kHz 9187m 2kW — 5980kHz 50.17m 2kW.
HOME SCE: On 760kHz: 09.15 (Sun 09.45) — 02.45 (Sat 03.45); 3265kHz: 20.45-02.45 (Sat 03.45); 5980kHz: 09.15 (Sun 09.45)-20.45.

N: W 09.48, 10.15, 11.15, 13.00*, 15.10, 16.00*, 20.00*, 20.10, 21.10, 22.00, 23.10, 00.45, 02.43. Sun: 11.10, 16.00*, 16.10, 20.00*, 23.10, 00.45, 02.43. — *) = BBC.
ANN: On 760/3265/5980kHz: "This is R. Demerara, Voice of Guyana" — V. by QSL-card. Recordings accepted — ALF: G$ 1.50.

GUIANA (French)

L.T: GMT - 3 h — Pr.L: French.

OFFICE DE RADIODIF. TELEVISION FRANCAISE (ORTF)
ADDR: B.P. 336, Cayenne. Te: 355 — L.P: St. Mgr: A. Guillaume. Dir. Tec: C. Pierre.
STATIONS (G.C: 52.00 W/05.00 N): 4kW: 1070kHz 280.4m — 3385kHz 88.63m, 4892kHz 61.32m — 6170kHz 48.62m.
HOME SCE: 09.15-11.00 on 1070/3385/4892kHz, 15.00-17.30 on 1070/4892/6170kHz, 20.30-01.00 (Sat 02.00) on 1070/3385/4892kHz — N: 10.30, 16.30, 22.30 — ANN: "Ici Cayenne, Office de Radiodiff. Télévision Française".
INT-SIG: Guitar.



V. by letter. Recordings accepted. — ALF: 30 Frcs.

PARAGUAY

L.T: GMT - 4 h — Pr.L: Spanish, Guarani.

ADMINISTRACION NACIONAL DE TELECOMMUNICACIONES
ADDR: Administración General, Cas. Correo 84, Asunción. Cable: Antelco. Te: 4001. L.P: Dir. Gen: P. Pereira. Dir. of Technical Dept: Ing. J. C. Martinez R.
STATIONS: All st's comm. exc. R. Nacional.
Short Waves: Call: ZP—.

	Call	kHz	m	kW	Name and h of tr.
1)	A6	5975	50.21	3	R. Guaira, Villarrica: 12.00-18.00, 21.00-03.00
2)	A10	6015	49.88	1	R. Paraguay, Asunción: 10.00-19.00, 20.00-02.00
3)	A1	6025	49.79	3	R. Nacional, Asunción: 11.00-17.00, 20.00-02.00
4)	A11	6110	49.10	1	R. Charitas, Asunción: 15.00-01.00
5)	A3	11850	25.32	3	R. Teleco, Asunción: 14.00-23.00
6)	A5	11945	25.12	5	R. Encarnación: 15.00-17.00, 20.00-02.00
7)	A7	15210	19.72	3	R. Guarani, Asunción: 12.00-16.00, 19.00-03.00

Medium Waves: ° = Shortwave.

	Call	kHz	kW		Call	kHz	kW
8)	ZP15	560	0.25	13)	ZP13	1060	1.5
9)	ZP16	640	1	4)	ZP11	°1200	1.5
10)	ZP12	700	10	2)	ZP10	°1300	5
6)	ZP5	°760	25	14)	ZP4	1330	1
7)	ZP7	°900	1.5	1)	ZP6	°1360	1.5
3)	ZP1	°920	10	5)	ZP3	°1430	1
11)	ZP9	970	1.5	15)	ZP8	1480	1
12)	ZP14	1020	5				

Short Waves:
1) Alejo Garcia y Pte. Franco, Villarrica. Te: 85. V. by QSL-card or letter.
2) Av. Dr. Caspar R. de Francia 338, Asunción. V. by QSL-card. Rp.
3) Victor Haedo 563, Asunción. L.P: Dir. Gen: A. Cáceres Almada. Dir. Tec: P. Pereira. D.Prgr: N: 16.30, 22.30, 02.30. Ann: "ZPI y ZPA1, R. Nacional del Paraguay". V. by letter. F.Pl: 3 × 100kW tr under construction for 9735, 11915, 11940kHz.
4) L. A. de Herrera 364, Asunción.
5) Av. Eusebio Ayala y Guarani, Asunción. Ann: "ZPA3 y ZPA3, R. Teleco, Asunción, República del Paraguay". V. by letter.
6) Encarnación. V. by letter. Recordings accepted.
7) José F. Bogardo y 7A, Asunción. Te: 46393. L.P: Dir. Tec: M. Saccarello. V. by letter.
Medium Waves:
8) **La Voz de Amambay,** Pedro Juan Caballero.
9) **R. Pte. Strossner,** Puerto Pte. Strossner.
10) **R. Carlos Antonio Lopéz,** Alberdi 200, Pilar. Te: 54. D.Prgr: 09.00-02.00 in Spanish & Guarani.
11) **R. Comuneros,** Estados Unidas y 9°, Pdas, Asunción.
12) **R. Nanduti,** Anteguera 654, Asunción.
13) **R. Boquerón,** Alberdi.
14) **R. Chaco Boreal,** Cnel. Bogoda 394, Boreal.
15) **R. Concepción,** Oliva y Schreiber, Concepción. L.P: Dir: S. E. Dacak. D.Prgr: 08.25-02.00. V. by letter. Recordings accepted.

PERU

L.T: GMT - 5 h — Pr.L: Spanish.

JUNTA PERMANENTE DE TELECOMUNICACIONES:
ADDR: Washington 1894, Lima.

ASOCIATION NACIONAL DE RADIO EMISORAS DEL PERU:
ADDR: Avda. Tacna 543, Lima.

ORGANISMO REGIONAL BOLIVARIANO DE AIR (O.R.B.O.)
ADDR: Colmena 624, Lima. L.P: Pres: P. Tello Cadenas (Peru). Exec. Secr: R. Salmon (Bolivia). ORBO represents all Radio & TV st's in Bolivia, Ecuador, Panama, Peru & Venezuela.
STATIONS: *) inactive.

	Call	kHz	m	kW	Name and h of tr.
1)	OBX7D	3230	93.00	0.4	R. El Sol de los Andes, Juliaca: 11.00-06.00
2)	OBX4U	3240	92.59	1	R. América, Lima: 13.00-05.05
3)	OAZ4G	3250	92.31	0.4	R. La Oroya, La Oroya
4)	OCX	3250	92.31	1	R. Collasuyo, Juliaca
5)	OBX1E	3280	91.40	1	R. San Miguel, Piura
6)	OBZ4E	3290	91.19	0.5	R. Universal, Callao: 22.30-03.15
7)	OBX4Y	3300	90.85	0.45	R. Junin, Huancayo: 12.00-05.00
8)	OBZ4I	3320	90.34	1	R. Erpa, San Vincente de Cañete: 18.00-08.00
9)	OAX1M	3330	90.09	10	R. Progreso, Piura: 12.00-05.00
10)	OBX7K	3335	89.95	1	R. La Convención Quillabamba: 11.00-04.00
11)	OAX5J	3350	89.55	1	R. Independencia, Ica
12)	OAX3Q	3330	90.09	0.5	R. Ondas de Hauliaga, Huanuco
13)	OBX4Z	3355	89.42	1	R. Luz, Lima: 12.00-05.00
14)	OAX3D	3360	89.29	0.5	R. Huánuco: 12.00-05.00
15)	OAX1O	3380	88.76	1	R. Chiclayo: 12.00-05.00
16)	OBZ4M	3385	88.63	1	R. La Voz del Valle del Mantaro, Jauja
17)	OCX4R	3390	88.50	0.3	R. Industrial, La Oroya
18)	OCX4T	4870	61.60	0.5	R. Obispado de Huancayo: 17.00-06.30
19)	OAX3W	4760	63.03	0.5	R. Tingo Maria: 11.0-06.00
20)	OCX4W	4762	63.00	0.25	R. Inca, Lima: 11.00-07.00
21)	OAX2G	4770	62.89	0.5	R. Cajamarca, Cajamarca: 12.00-05.00
22)	OAX3V	4785	62.70	1	R. Horizonte, Huanuco
23)	OAX5X	4790	62.63	0.4	R. Nazca, Nazca: 12.00-06.00
24)	OBX7C	4800	62.50	0.5	R. Onda Azul, Puno: 10.45-04.15
25)	OCY4S	4800	62.50		R. Nueva Voz de Centro, El Tambo
26)	OAX2U	4810	62.37	1	R. San Ignacio, Jaén: 21.30-02.30
27)	OAX8X	4815	62.31	1	R. Amazonas, Iquitos: 11.00-05.00
28)	OAX5U	4815	62.31	1	R. La Voz de Huamanga
29)	OAX7K	4820	62.24	0.45	R. Puno, Puno: 01.00-04.00
30)	OAX8R	4825	62.18	1	R. San José, Iquitos: 11.00-02.00
31)	OAX6Z	4825	62.18	0.5	R. Moquegua
32)	OBX5I	4830	62.11	4	R. Apurimac, Abancay
33)	OAZ4J	4835	62.05	0.5	R. Sudamericana, Lima
34)	OAX7T	4835	62.05	0.35	R. Sicuani, Sicuani
35)	OAX8F	4840	61.98	1	R. Atlántida, Iquitos: 12.00-05.00
36)	OBX5E	4840	61.98	1	R. Andahuaylas, Andahuaylas
37)	OAX1X	4845	61.92	1	La Voz de Chira, Sullana: 12.00-05.00
38)	OAX8I	4855	61.79	0.5	R. La Hora, Iquitos
39)	OCX7E	4855	61.79	0.5	R. Puerto Maldonado
40)	OCX4B	4850	61.86	1	R. Callao: 11.00-05.00
41)	OCX4E	4880	61.48	1	R. Once Sesenta, Lima: 12.00-05.00
42)	OAX5V	4885	61.45	1	R. Villa Rica, Huancavelica
43)	OAZ4T	4895	61.29	0.4	R. Chanchamayo, La Merced
44)	OAZ8A	4902	61.20	0.5	Inst. Linguistico, Yarinacocha
45)	OAX2K	4910	61.10	0.5	R. Libertad, Trujillo: 12.00-05.00
46)	OBX7V	4910	61.10	1	R. Tahuantisuyo, Cuzco
47)	OAX2H	4915	61.03	0.5	R. La Hora, Trujillo: 12.00-06.00
48)	OBX7H	4920	60.89	1	R. Ondas del Titicaca, Puno
49)	OAX5Q	4934	60.80	0.25	R. Concejo Provincial de Abancay
50)	OAX9E	4935	60.80	1	R. Tropical, Tarapoto: 11.00-04.00
51)	OAX6N	4940	60.73	0.5	R. El Misti, Arequipa: 12.00-04.30
52)	OAZ4R	4940	60.73	0.5	R. San Juan, Tarma: 12.00-04.30
53)	OAZ4I	*4945	60.67	0.4	R. Huacho, Huacho: 12.00-05.00
54)	OAX7I	4950	60.60	0.5	R. Madre de Dios, Puerto Maldonado
55)	OAX5S	4955	60.54	1	R. Amauta, Huanta: 11.00-05.00
56)	OAX1S	4960	60.48	0.5	R. Lambayeque, Chiclayo: 11.15-05.00
57)	OBX1Q	4970	60.36	1	R. San Juan, Piura
58)	OCX7D	4970	60.36	1	R. Puno
59)	OCX4H	4975	60.30	5	R. Del Pacifico, Lima
60)	OBX7W	4980	60.25	0.3	R. Maldonado, Puerto Maldonado
61)	OAX9I	4980	60.25	0.3	R. Huallaga Central, Bellavista
62)	OCX4O	4985	60.18	10	R. Nacional, Lima
63)	OBX7R	4990	60.12	1	R. Triunfo, San Blas: 12.00-04.00
64)	OBX1O	4990	60.12	1	R. Atlanta, Chulucanas: 12.00-05.00

Peru

	Call	kHz	m	kW	Name and h of tr.
65)	OAZ4C	4995	60.06	1	R. Andina, Huancayo: 11.00-05.00
66)	OAX2S	5005	59.94	0.25	R. Jaén, Jaén
67)	OAX8V	5010	59.88	0.4	R. Eco, Iquitos: 12.00-05.00
68)	OAX5O	*5010	59.88	1	R. Pisco, Pisco
69)	OAX7Z	5015	59.82	0.35	R. Juliaca, Juliaca: 12.00-14.00, 17.00-19.00, 22.00-04.00
70)	OAX7Q	5025	59.70	1	R. Quillabamba: 12.00-04.00
71)	OBX7B	5035	59.58	0.5	R. Ayaviri, Ayaviri: 21.00-04.00
72)	OAX6U	5035	59.58	1	R. Ilo, Ilo: 12.00-05.00
73)	OCY4E	5040	59.52	10	R. Los Andes, Lima
74)	OAX1J	5050	59.41	0.4	R. Tumbes, Tumbes: 12.00-05.00
75)	OBX7O	5055	59.35	1	R. Onda Imperial, Cuzco: 16.00-07.00
76)	OAZ4A	5058	59.31	1	R. Tarma, Tarma: 12.00-05.00
77)	OAX4P	5955	50.39	0.5	R. Huancayo: 11.30-04.30
78)	OAX7L	5960	50.34	0.25	La Voz del Altiplano Puno: 12.00-05.00
79)	OBX4Q	5970	50.25	10	R. El Sol, Lima: 11.00-05.00
80)	OBX4M	5980	50.17	5	R. Panamericana, Lima: 12.00-16.00, 23.00-04.00
81)	OAX1W	5990	50.08	1	R. Nacional, Tumbes
2)	OAX4V	6010	49.92	10	R. América, Lima: 13.00-05.05
82)	OAX4Q	6020	49.83	1	R. Victoria, Lima: 11.00-06.00
83)	OAX8B	6028	49.77	1	R. Nacional, Iquitos: 11.00-05.00
84)	OAX6B	6035	49.71	0.2	R. Landa, Arequipa: 12.00-05.00
85)	OAX6A	6042	49.65	0.25	R. Arequipa: 12.00-04.30
86)	OCY4H	6045	49.63		R. Santa Rosa, Lima: 21.00-03.45
87)	OAX6E	6055	49.55	1	R. Continental, Arequipa: 11.00-06.00
88)	OAX8L	6062	49.48	0.25	R. Telesar, Pucallpa
89)	OAX4S	6070	49.42	1.3	R. Onda Popular, Lima: 24 h
62)	OAX4Z	6082	49.32	150	R. Nacional, Lima: 11.0-05.00
90)	OAX4H	6095	49.22	10	R. Oficial del Congreso del Peru, Lima: 12.00-05.00
91)	OAX6F	6105	49.14	1	R. Nacional, Tacna: 12.00-05.00
92)	OBZ4O	6115	49.06	10	R. Union, Lima
93)	OCX4A	6123	49.01	1	R. La Cronica, Lima
94)	OAX7A	6128	48.96	0.1	R. Cuzco, Cuzco: 12.00-05.00
95)	OCX4M	6135	48.90	0.5	R. Pasco, Cerro de Pasco
96)	OAX1A	6140	48.86	0.2	R. Delcar, Chiclayo: 00.00-05.30
97)	OAX9B	6140	48.86	0.02	R. Amazonas, Chachapoyas
98)	OAZ4E	6145	48.82	0.5	R. Mineria, La Oroya: 12.00-05.00
99)	OBX4G	6150	48.78	2	R. Excelsior, Lima: 12.00-05.00
100)	OAX8Q	6155	48.74	1	R. Pucallpa: 11.00-05.00
101)	OCX4G	6160	48.70	1	R. Mundo, Huancayo: 11.00-05.00
102)	OAX2A	6165	48.66	0.4	R. Trujillo, Trujillo: 12.15-05.30
103)	OBX4B	6170	48.62	0.35	R. Corporación, Cerro de Pasco: 10.00-05.00
46)	OAX7C	6175	48.58	0.3	R. Tahuantisuyo, Cuzco
104)	OBX4P	6180	48.54	0.5	R. Miraflores, Miraflores
105)	OAX4G	6190	48.47	0.4	R. Lima, Lima: 12.00-06.00
106)	OAX1Y	6198	48.40	0.3	R. Sudamericana, Piura: 12.00-05.00
107)	OAX8E	9504	31.56	1	R. Loreto, Iquitos: 11.00-05.00
108)	OAX6H	9505	31.56	0.2	R. Tacna, Tacna: 10.30-05.20
2)	OAX4V	9510	31.55	5	R. América, Lima: 13.00-05.05
93)	OAX4J	9520	31.51	5	R. La Cronica, Lima: 12.00-05.00
91)	OAX6G	9530	31.48	1	R. Nacional, Tacna
109)	OAX4K	9545	31.43	0.5	R. Central, Lima: 12.00-06.00
81)	OAX1Z	9550	31.41	1	R. Nacional, Tumbes: 11.00-05.00
62)	OAX4R	9562	31.37	150	R. Nacional, Lima: 21.00-05.00
110)	OBX4K	9585	31.30	0.5	R. Selecta, Lima: 13.00-04.30
111)	OAX5C	9590	31.28	0.2	R. Ica, Ica
112)	OAX3E	9600	31.25	0.5	R. Huaráz, Huaráz
113)	OAX1R	9600	31.25	0.45	R. Talara, Talara
83)	OAX8C	9610	31.22	2	R. Nacional, Iquitos: 12.00-05.00
1)	OBX7E	9618	31.19	0.4	R. El Sol de los Andes, Juliaca: 11.00-06.00
35)	OAX8K	9625	31.17	1	R. Atlántida, Iquitos: 11.00-05.00
114)	OCX4K	9635	31.14	1	R. Expreso, Lima: 12.00-05.00
115)	OAX1T	9645	31.10	0.5	R. Grau, Piura
116)	OAX9G	9655	31.07	1	R. Nor Peruana Chachapoyas: 12.00-06.00
67)	OAX8U	9665	31.04	1	R. Eco, Iquitos: 12.00-05.00
59)	OAZ4L	9675	31.01	5	R. Del Pacifico, Lima: 12.00-03.00
117)	OCX4Y	9695	30.94	1	R. Continente, Lima: 11.30-06.00
50)	OAX9D	9710	30.90	1	R. Tropical, Tarapoto: 11.00-04.00
82)	OCX4C	9720	30.86	1	R. Victoria, Lima
118)	OAX7J	*9730	30.83	0.45	R. La Hora, Cuzco
73)	OCY4F	9740	30.80	10	R. Los Andes, Lima
11)	OAX8W	9750	30.77	2.1	R. Sideral, Pucallpa
27)	OAX8O	9770	30.71	1	R. Amazonas, Iquitos

	Call	kHz	m	kW	Name and h of tr.
62)	OBX4R	*11914	25.19	150	R. Nacional, Lima
62)	OAX4T	15150	19.80	150	R. Nacional, Lima: irr.
79)	OBX4C	*15180	19.76	1	R. El Sol, Lima
62)	OCX4O	*17890	16.77	10	R. Nacional, Lima
62)	OBX4T	*21600	13.89	150	R. Nacional, Lima

Medium Waves: ° = also on Short Wave.

	Call	kHz	kW
119)	OAX3X	540	5
68)	OAX5P	°560	1
120)	OBZ4L	560	1
121)	OAX3K	570	1
122)	OBX5F	570	1
123)	OCY4K	590	50
124)	OCY4J	610	50
125)	OAX2M	620	9.4
28)	OAX5T	°620	1
24)	OBX7B	°640	1
59)	OAZ4X	°640	10
126)	OAX5R	650	1
127)	OAX2N	650	1
6)	OBX4A	°670	1
128)	OBX1S	680	5
3)	OAZ4F	°690	0.4
87)	OAX6C	°690	10
129)	OBZ4H	700	1
57)	OBX1P	°710	10
130)	OCY4M	720	5
33)	OBX4S	°730	1
106)	OAX1B	°750	0.25
131)	OAX3T	570	1
73)	OBZ4X	°760	10
132)	OBX7N	770	0.4
82)	OAX4X	°780	10
133)	OAX2I	790	5
134)	OAZ4U	800	0.5
135)	OBX5B	800	0.5
136)	OBZ4A	800	0.5
137)	OAX2V	800	1
138)	OAX3Y	800	1
139)	OCY4T	800	1
140)	OBX6A	800	0.35
141)	OBX1L	810	1
30)	OAX8S	°810	5
142)	OAX2J	820	1
143)	OAX4O	820	1
144)	OAX3S	830	1
62)	OAX4H	°855	300
145)	OAZ4Y	870	0.25
146)	OBX1F	870	1
92)	OBZ4N	°880	50
9)	OAX1D	°890	1
79)	OBX4X	°900	10
147)	OBX1G	920	1
148)	OBZ4J	920	1
109)	OAX4E	°930	50
149)	OBX7L	940	0.5
80)	OAX4D	°960	20
47)	OAX2F	°980	0.4
114)	OBX4J	°985	5
16)	OBZ4R	°990	1
2)	OAX4U	°1010	50
78)	OAX7N	°1030	0.25
150)	OAX1S	1030	10
89)	OBX4O	°1040	10
22)	OAX3U	°1060	1
36)	OBX5D	°1060	1
151)	OCY4D	1060	1
102)	OAX2B	°1070	5
152)	OAX5A	1070	0.25
90)	OAX4F	°1080	1
5)	OBX1D	°1080	5
153)	OAX7S	1080	1
27)	OAX8N	°1080	1
154)	OAX9H	1080	1
19)	OAX3I	°1100	0.5
155)	OAZ4K	1100	1
156)	OCX4S	1100	0.15
157)	OAX5Z	1100	1
158)	OCY4G	1100	1
159)	OBX7Z	1100	1
62)	OBX4A	°1120	20
83)	OAX8A	°1120	10
91)	OAX6D	°1120	10
160)	OBX1I	1130	1
110)	OAX4N	°1130	2.6
29)	OAX7H	°1130	0.45
43)	OAZ4S	°1130	0.4
161)	OCY4C	1140	1
162)	OAX5W	1140	0.5
107)	OAX8D	°1150	10
41)	OAX4C	°1160	5
163)	OAX7D	°1160	10
81)	OAX1K	°1160	1
45)	OAX2C	°1160	0.3
112)	OAX3B	°1160	0.5
164)	OAX3O	1180	0.5
15)	OAX1E	°1190	10
46)	OAX7B	°1200	0.3

	Call	kHz	kW
105)	OAX4B	°1200	2.5
165)	OAX8M	1200	0.5
166)	OAX2Q	1210	1
167)	OAX5G	1220	1
168)	OAX2T	1230	1
169)	OBZ4Y	1230	0.4
13)	OBX4L	°1230	1
54)	OBX7J	°1230	0.5
100)	OAX8P	°1250	1
104)	OAX4L	°1250	5
115)	OAX1H	°1270	0.5
111)	OAX5B	°1270	1
48)	OBX7G	°1270	1
67)	OAX8T	°1270	1
116)	OAX9F	°1270	1
53)	OAZ4H	°1270	1
170)	OBZ4T	1270	0.5
171)	OBZ4K	1280	10
172)	OBX5G	1300	1
56)	OAX1I	°1300	1
64)	OBX1M	°1300	1
65)	OAZ4B	°1300	1
75)	OAX7P	°1300	0.35
173)	OAX4M	1300	1
174)	OAX6P	1300	0.4
175)	OAZB	1300	1
69)	OAX7X	°1300	0.3
93)	OAX4I	°1320	10
113)	OAX1F	°1320	1
50)	OAX9C	°1340	1
51)	OAX6L	°1340	0.5
176)	OBZ4U	1340	0.5
177)	OAX5D	1340	0.5
178)	OAZ4M	1340	0.2
179)	OAX5H	1340	0.5
180)	OAZ4Q	1340	0.5
181)	OBX1K	1340	1
182)	OBX7X	1340	0.5
183)	OAX6Y	1340	0.1
12)	OAX3N	°1350	1
99)	OAX4Y	1360	1
34)	OAX7R	°1360	0.35
184)	OAX3H	1370	1
185)	OAZ4O	1370	0.5
186)	OAX8G	1370	0.5
187)	OAX5I	1370	0.5
188)	OAX5F	1370	0.5
7)	OBX4V	°1370	1
21)	OAX2D	°1370	0.5
74)	OAX1G	°1370	1
31)	OAX--	°1370	0.5
189)	OAX2W	1380	1
190)	OBX5C	1380	1
191)	OCX4V	1380	0.3
52)	OAZ4P	°1400	0.5
40)	OBX4W	°1400	3
192)	OAX20	1400	1
84)	OAX6J	°1400	0.2
118)	OAX7I	°1400	0.45
4)	OCX7C	°1420	1
193)	OAX6S	1420	1.5
194)	OBZ4G	1420	1
195)	OAX8Z	1420	1
196)	OBX1H	1420	0.5
32)	OBX5H	°1420	0.4
198)	OAZ4V	1430	0.5
117)	OCX4X	°1440	1
199)	OAX6R	1440	1
37)	OAX1V	°1460	1
14)	OAX3C	°1460	0.25
1)	OAX7W	°1460	1
200)	OAX5K	1460	2.5
201)	OCY4I	1460	0.5
202)	OBX1N	1460	1
203)	OAX3W	1460	1
77)	OCX4D	°1470	1
94)	OAX7G	°1470	0.15
204)	OAX6K	1470	0.5
38)	OAX8H	°1470	0.45
29)	OBX4E	°1480	10
205)	OAX1L	1490	0.25
95)	OCX4P	°1490	0.5
206)	OAX6O	1490	1
207)	OAX1L	1490	0.25
35)	OAX8J	°1490	1
49)	OAX5L	°1490	0.25
23)	OAX5N	°1490	0.3
86)	OBX4I	°1500	10
208)	OAX6I	1500	1
76)	OCX4J	°1510	0.1
209)	OAX2L	1510	1

	Call	kHz	kW		Call	kHz	kW
210)	OAX6M	1510	1	101)	OCX4F	°1560	1
64)	OBX1M	°1510	1	215)	OAX7U	1560	0.35
211)	OBX4D	1520	1	216)	OAX2X	1560	1
98)	OAZ4D	°1520	0.5	217)	OAX7Y	1570	1
96)	OAX1C	°1520	1	218)	OBZ4V	1570	1
60)	OBX7U	°1520	0.25	42)	OAX5M	°1580	0.15
25)	OBZ4S	°1530	1	63)	OBX7Q	°1580	0.5
212)	OAX6Q	1540	5	219)	OAX3M	1580	1
103)	OBX4N	°1540	0.3	220)	OCY4B	1580	0.5
213)	OAZ4N	1540	0.15	221)	OAZ4Z	1590	5
214)	OAX2Y	1540	0.5				

Short Waves:

1) Cas. 11, Juliaca. **Te:** 81. **L.P:** Dir. Gen: S. Davila U. Dir. Tec: E. Esquivar. **D. Prgr:** Quechua 11.00-12.00, Aymara 12.00-18.00. Other times Spanish. **N:** 12.00, 17.30, 24.00. **Ann:** "Aqui Peru, desde Juliaca, El Sol de los Andes". **Int-Sig:** Xylophone. **V.** by letter. Recordings accepted.
2) Cas. 1192, Lima. **Te:** 33167. **V.** by QSL-card.
3) Ca. Tarma 195, La Oroya. **Ann:** "OAZ4F 1470kHz onda larga y OAZ4G en 3250kHz onda tropical, banda de 92mts, R. La Oroya de La Oroya, afiliada a la Asocación de R. Victoria, Lima, Peru.
4) Juliaca.
5) Av. Sánchez Cerro 2A Cuadra, Piura.
6) Jr. Buenos Aires 934, La Punta, Callao. **Te:** 90798. **L.P:** Dir. Gen: R Nieto. St. Mgr: M. Nieto. Dir. Tec: S. Raspa.
7) Jiron Callao 120, Huancayo. **L.P:** Mgr: T. Tasa Z. **V.** by QSL-card.
8) Apt. 70, San Vicente de Cañete. **Te:** 2261. **L.P:** Dir. J. A. Lasunción. Dir. Tec: F. X. Coll Sanut. **D,Prgr: N:** 12.15, 01.30. **Ann:** "R. ERPA, una Voz al servicio de la cultura". **V.** by letter. Recordings accepted. **F.Pl:** 10kW.
9) Ca. Ica. 419, Piura. **Ann:** "R. Progreso de Piura transmite para todo el Peru".
10) Casilla 201, Quillabamba. **Te:** 197. **L.P:** Dir: E. Romero **R. Ann:** "OBX7K 3335kc, banda de 90 metros, R. Difusora la Convencion, transmitiendo desde la Ciudad de Quillabamba". **V.** by letter. Recordings accepted.
11) Jiron Cajamarca 194, Ica.
12) Apt. 343, Huanuco. **Te:** 2428. **L.P:** Dir: F. Llanos M. **V.** by letter.
13) Av. Tacna 543, Lima. **Te:** 80253. **L.P:**Dir: C. Vinatea. **Ann:** "R. Luz, la primera emisora del dial". **V.** by QSL-card.
14) Municipalidad de Huánuco, Huánuco.
15) Edif. Banco Popular 4, Chiclayo. **Ann:** "La Emisora Mas Popular del Norte" or "R. Chiclayo transmitiendo para todo el Peru".
16) Ca. Junin 1131, Jauja. **V.** by letter.
17) Jirón Arequipa 201, La Oroya.
18) Palacio Arzobispal, Huancayo. **V.** by letter. Recordings accepted. **F.Pl:** mw, 5kW sw.
19) Apt. 25, Tingo Maria. **L.P:** Dir. Gen: L. Infantas Guerra. **D.Prgr: N:** on the h. **Ann:** "Transmite R. Tingo Maria, La Voz del Progreso desde La Ciudad de la Bella Durmiente". **V.** by letter. Recordings accepted.
20) Av. Wilson 1191, Lima. **Ann:** "Aqui R. Inca del Peru". **V.** by QSL-card. Recordings accepted.
21) Plaza de Armas, Cajamarca.
22) Apt. 25, Tingo Maria. **L.P:** Dir: T. Maldonado B.
23) Apt. 54, Nazca. **Ann:** "OAX5N y OAX5X R. Nazca su companera musical transmite en sus frecuencias de 1490kc y 4790 ondas media y corta respectivamente de sus estudios en urbanizacion pencal, Nazca, Peru". **V.** by letter. Rp. Recordings accepted.
24) Cas. 210, Puno. **Ann:** "R. Onda Azul, Escuelas Radiofonicas del Peru, Puno, en trabajo simultaneo con sus dos transmisoras: 4800kc onda corta, 640kc onda larga". **V.** by QSL-card or letter. Recordings accepted.
25) Real Tambo 600, El Tambo.
26) Apt. 6, Jaen. **L.P:** Dir: F. J. del Maranon.
27) Jirón Lima 958, Iquitos. **Te:** 2740. **L.P:** Dir. Gen: M. Iglesias N. St. Mgr: M. Melendez C. **D.Prgr: N:** 12.00, 03.00. **V.** by letter.
28) Pasaje Macate 151, Huamanga. **L.P:** Dir: F. Cruz M.
29) Ca. Arequipa 100, Puno. **L.P:** Dir. Gen: J. Zea Gonzales. Dir. Tec: R. Laso V. **Ann:** "La Emisora de los Mejores Programas" or "La Voz del Departmento mas poblado del Perú". **V.** by QSL-card.
30) Indiana, Rio Amazonas. **L.P:** Dir: D. Cournoyer. **D.Prgr: N:** 13.00, 17.00, 23.00. **Ann:** "Transmite R. San José, La Voz Cultural de la Amazonia . . . desde Indiana, Rio Amazonas, República del Peru".
31) Moquegua.
32) Abancay. **L.P:** Dir: R. Montesinos L.
33) Teodoro Cardenas 641, Lima.
34) Plaza de Armas 106, Sicuani. **V.** by letter.
35) Apt. 277, Iquitos. **V.** by QSL-card.
36) Ca. Antonio Trelles 236, Andahuaylas. **L.P:** Dir: T. Muñoz I.
37) Sucre 556, Sullana.
38) Ca. San Martin 126, Iquitos. **Ann:** "La Voz de la Juventud. Loretana en el Cielo Amazónico".
39) Puert Maldonado.
40) Colón 260, Callao. **Te:** 291.000. **L.P:** Dir. Gen: F. Degado L. Dir. Tec: L. Gálvez P. **Ann:** "R. Callao, La Emisora del Primer Puerto del Peru". **V.** by letter. Recordings accepted. **F.Pl:** 5kW.
41) Huáraz, 2098, Lima. **L.P:** Dir. Tec: J. Seminario. **Ann:** "R. Once Sesenta, la primera emisora dedicada a la mujer".
42) Virrey Toledo 468, Huancavelica. **L.P:** Dir: F. Cruz M.
43) Apt. 96, La Merced. **Te:** 68. **L.P:** Dir: A. Espejo P. **Ann:** "R. Chanchamayo OAZ4S 1130kc y OAZ4T 4895kc, onda corta, banda de 60 metros transmite R. Chanchamayo desde La Merced, Capital Cafelera del Peru, emisora afiliada a la Cadena Nacional de R. Victoria". **V.** by letter or QSL-card. Recordings accepted.
44) Yarinacocha.
45) Jiron Zepita 450, Trujillo.
46) Av. El Sol 830, Cuzco. **Ann:** "La Emisora de los grandes exitos".
47) Zepita 439, Trujillo. **Ann:** "R. La Hora, la emisora de los exitos".
48) Ca. Arequipa 323, Puno.
49) Sede del Concejo Provincial de Abancay, Abancay.
50) Cas. 31, Tarapoto. **L.P:** Mgr: J. Pablo M. Dir: C. Augusto S. Dir. Tec: V. Lack. **D.Prgr: N:** 12.30, 17.30, 22.00. **Ann:** "R. Tropical transmite con sus tres Poderosas Ondas desde Tarapoto, Departmento de San Martin". **V.** by QSL-card or letter. Recordings accepted.
51) Apt. 657, Arequipa. **L.P:** Mgr. R. Zuñiga G.
52) Jiron Huánuco 488, Tarma.
53) Av. Echenique 140, Huacho. **L.P:** Dir: José E. Cavero.
54) Puerto Maldonado, Madre de Dios. **Ann:** "Emisora Madre de Dios en Maldonado, Emisora Cultural al servicio de la Inglesia Católica".
55) Cas. 24, Huanta. **L.P:** Dir. Gen: M. D. Cueva T. Dir. Tec: V. Saico T. **Ann:** "R. Club Cultural Amauta OAX5S" **V.** by QSL-card. Recordings accepted.
56) Av Balta 413, Chiclayo.
57) Piura. **L.P:** Dir: J. Palacio P.
58) Puno.
59) Apt. 4236, Lima. **Te:** 76911. **Cable:** Team Lima. **L.P:** Dir. Gen: N. Mydske. Mgr: P. Ferreira G. Dir. Tec: J. Newing. **D.Prgr: N:** 13.00, 14.00, 15.00, 16.00, 17.00, 02.00. **Ann:** "Desde Lima transmiten R. del Pacifico y R. del Pacifico FM". **V.** by letter. Recordings accepted. Prgr. schedule free. **FM:** 102MHz 1kW.
60) Esq. Puno y Cuzco, Puerto Maldonado. **L.P:** Dir: R. Montesinos.
61) Bellavista.
62) Av. Petit Thouars 441, Lima. **Te:** 42128. **Ann:** "R. Nacional del Peru, la primera emisoras del pais". **V.** by QSL-card.
63) Apt. 583, Cuzco. **L.P:** Dir. E. F. Gonzáles P. **D.Prgr: N:** 17.15, 23.00. **V.** by QSL-card. Recordings accepted.
64) Ica 321, Chulucanas. **Te:** 84. **L.P:** Dir. Gen: J. Palacios P. St. Mgr: O. Cruz Zapata. Dir. Tec: R. R. del Valle. **Ann:** "Esta es La Voz de R. Atlanta, una Voz Peruana en America". **V.** by letter. Recordings accepted.
65) Ca. Real 319, Chilca, Huancayo. **L.P:** Dir: F. Cruz M. **Ann:** "Del centro urbano más importante transmite R. Andina". **V.** by letter.
66) Ca. Comercio 301, Jaén. **L.P:** Dir: A. Vilchez R.
67) Ca. Morona 20, Iquitos. **L.P:** Dir: R. Reátegui S.
68) Av. Huayna Capac 1345, Pisco. **L.P:** Dir: A. Pereyra B.
69) Ca. 9 de Diciembre 199, Juliaca. **L.P:** Dir. Gen: J. Zea Gonzalez. **V.** by letter.
70) Apt. 76, Quillabamba. **Te:** 33. **L.P:** Dir: C. L. Llana S. Dir. Tec: E. Cervero. C. **D.Prgr: N:** 19.00, 00.30. **V.** by letter. Recordings accepted.
71) Jorge Chávez 418, Ayaviri. **Te:** 127. Dir. Gen: J. A. Solórzano M. Dir. Tec: G. Valdivia M. **Ann:** "R. Ayaviri, La Voz de Melgar". **V.** by letter. Recordings accepted.
72) Cas. 90, Ilo. **Te:** 196. **L.P:** Dir. Gen: L. Sardón U. St. Mgr: A. Sardon U. Dir. Tec: R. Quirogan G. **D.Prgr: N:** 17.30, 01.00. **Ann:** "En transmission OAX6U 5035kc banda tropical de onda corta, R. Ilo la freq. de oro llevando hasta vuestros hogares en mensaje de peruanidad desde la costa Sur del Peru". **V.** by letter.
73) Pablo Bermudez 214, Lima.
74) Plaza de Armas s/n, Tumbes. **Ann:** "La Voz de la Juventud".
75) Cas. 40, Cuzco. **Ann:** "Estas son emisoras peruanas, R. Onda Imperial desde Cuzco, Peru". **V.** by QSL-card and letter.
76) Jr. Juaráz 198, Tarma.
77) Cas. 187, Huancayo. **L.P:** Dir: A. Elejalde G. **Ann:** "La Voz de Centro del Perú" or OCX4D y OAX4P, R. Huancayo, La Voz del centro del Peru".
78) Apt. 130, Puno. **D.Prgr:** 1030kc: 11.00-05.00 in Spanish: 5960kc: 12.00-04.00 (English 03.00-04.00) **N. in Spanish:** 12.00, 18.00, 02.00. **Ann:** Sp: "Desde Puno Capital Folklórica del Perú, R. La Voz del Altiplano". E: "From Puno City, The Folklore Capital of Peru, R. La Voz del Altiplano". **Int-Sig:** First movement from "Himno al Sol" composed by R. Huirse. **V.** by QSL-card or letter.
79) Av. José Galvez 1040, Santa Beatriz, Lima. **Te:** 33905.
80) Av. Arequipa 1110, Lima. **Ann:** "Sabe quien transmite? R. Panamerica" or "Panamericana ciudad de Lima". **V.** by letter.
81) Rosales A. Tumbes. **V.** by letter.
82) Av. Tacna 225, Lima. **Int-Sig:** First movement of Beethoven's 5th Symphony. **V.** by letter.
83) Iquitos. **V.** by letter.
84) Ca. Sucre 409, Arequipa. **L.P:** Dir: M. J. Landa. **V.** by QSL-card.
85) Apt. 657, Arequipa. **Ann:** "La Voz del Misti".
86) Camana 152, Lima.
87) Av. Independencia, Arequipa. **L.P:** Mgr: J. A. Umbert. **Ann:** "OAX6C, OAX6D y OAX6E Emisoras de R. Continental de Arequipa".
88) Jiron Raymondi 185, Pucallpa. **L.P:** Dir: A. Chaque. **V.** by letter.
89) Colmena 624, Lima. **Te:** 70350. **Cable:** Onda Lima. **V.** by QSL-card. Recordings accepted.
90) Jr. Union 733, Lima. **Te:** 77541.
91) Cas. 113, Tacna. **V.** by letter.
92) Av. Abancay 377, Lima.
93) Av. Tacna 665, Lima.
94) Ca. Shapi 601, Cuzco.
95) Apt. 128, Cerro de Pasco.
96) Av. Balta 628, Chiclayo. **Ann:** "La Emisora que esta mas tiempo en su dial". **V.** by letter.
97) Obispado de Chachapoyas.
98) Ca. Dario 313, Yauli.
99) Av. Manco Capac 333, La Victoria, Lima. **Ann:** "Transmite R. Excelsior la emisora mas criolla del Peru".
100) Ucayali, Pucallpa. **L.P:** Dir. Gen: D. Zevallos R.
101) Calle Real 455, Huancayo. **L.P:** Dir: M. Huanay G. **V.** by letter.
102) Plaza de Armas, Edif. de la Beneficencia 303, Trujillo. **L.P:** Dir: J. Castro. **Ann:** "La Voz del Norte del Peru". **V.** by letter.
103) Apt. 19, Cerro de Pasco. **Ann:** "La Voz de Cerro de Pasco".
104) Av. Larco 760, Miraflores, Lima.

105) Esq. Petit Thouars 3ra Cuadra, Lima. **Ann:** "Transmite R. Lima indicando las siglas correspondientes". **V.** by letter.
106) Ca. Tacna 871, Piura. **Ann:** "La Decana del Departamento". **V.** by letter.
107) Ca. Arica 30, Iquitos. **L.P:** Dir: R. Curzado. **Ann:** "Desde el Corazon de la Amazina Peruana transmite R. Loreto La Voz del Oriente Peruano" or "Transmite R. Loredo desde Iquitos".
108) Cas. 188, Tacna. **L.P:** Dir: J. Cáceres. **Ann:** "Transmite R. Tacna y La Voz del Sur simulteneamente". **V.** by letter.
109) Belén 1038, Lima. **Ann:** "En su receptor y en todas partes R. Central, La emisoras más Popular".
110) Av. Nicolas de Pierola 1014, Lima. **Ann:** "Esta es OAX4N, R. Selecta de Lima, una emisora al servicio de la cultura musical del país".
111) San Martin 251, Ica.
112) Jirón Cuzco 107, Huaraz. **Te:** 2360.
113) Altos Cine Talara, Talara.
114) Paseo Colón 299, Lima. **Te:** 45035
115) Jirón Cuzco 850, Piura. **L.P:** Dir: J. Giron S.
116) Jirón 2 de Mayo 642, Chachapoyas, Dept, Amazonas. **L.P:** Dir: M. Muñoz C. Dir. Tec: M. R. Fernández. **D.Prgr: N:** 14.00, 18.00, 04.00. **Ann:** "Esta es R. Nor Peruana, el Oriente del Perú que dice presente, transmitiendo por sus freq. OAX9F 1270kc onda larga y OAX9G 9655kc onda corta, desde la Fidelisma ciudad de Chachapoyas, Dept. Amazonas". **V.** by letter.
117) Jr. Camaña 615, Of. 802, Lima. **Te:** 73074. **Ann:** "En 1440kHz R. Continente, el punto de sintonia en Lima, Perú".
118) Ca. San Bernardo 132, Cuzco.

Medium Waves:
119) **La Voz de la Costa,** Chimbote.
120) **La Voz de Oriente,** Av. Abancay 210, Lima.
121) **R. Progreso,** Av. Bolognesi 571, Chimbote.
122) **R. Constelación,** Conde de Nieva 125, Ica. **L.P:** Dir: J. Panizzo
123) Lima—124) Lima.
125) **R. Chepén,** Ca. Lima 597, Chepén·Libertad.
126) **R. Regionalista,** Av. Salaverry s/n, Ica. **L.P:** Dir: A. Nieri B.
127) **R. Ondas del Norte,** Av. Victor Larco s/n, Trujillo.
128) **La Voz de Tumbes,** Tumbes.
129) **R. Progreso,** Av. de la Marina, Manzana HG, San Miguel.
130) **La Voz de la Sierra,** Huancayo.
131) **R. Mundo,** Manuel Ruiz 504, Chimbote. **L.P:** Dir: J. Castro S.
132) **R. Ilave,** Av. Jauregui s/n, Juliaca. **L.P:** Dir: J. Cornejo P.
133) **C.R.U.,** Urbanización California, Trujillo.
134) **R. San Juan,** Ca. Derecha 483, Huaral. **L.P:** Dir: S. Kong M.
135) **R. Sur Medio,** Av. Arenales s/n, Ica. **L.P:** Dir: M. Delgado P.
136) **R. San Antonio,** Ca. Pablo Nosiglia 235, Cañete.
137) Cajamarca.
138) **R. Selva,** Tingo Maria.
139) **R. Progreso,** Huancayo.
140) **R. Porteño,** Ilo.
141) **R. Start,** Chiclayo.
142) **R. Sudamericana,** Independencia 565, Trujillo.
143) **R. Libertad,** Jirón Belen 1038, Lima.
144) **R. Casma,** Ca. Manco Capac 115, Casma.
145) **R. La Montaña,** Fco Irazola Manzana 10, Santipo.
146) **C.R.U.** Camino A. Pimentel, Chiclayo. **L.P:** Dir: G. Delgado B.
147) **R. Heróica,** Elias Aguirre 828, Chiclayo.
148) **R. Bolognesi,** Jirón Loreto 359, Huancayo.
149) **R. Wilcamayo,** Apt. 129, Sicuano. **L.P:** Dir: R. Aguilar C.
150) Chiclayo.
151) **R. Ondas Musical,** Av. Colonial 1512, Titular, Lima.
152) **R. Centinela,** Av. Los Incas, Pto. S. Juan, Marcona, Nazca.
153) **R. Salcantay,** Ca. Almirante s/n, Cuzco.
154) **R. Miranon,** Chachapoyas, Amazonas.
155) **R. Musical Cra,** Panamericana Nte. KM 187.5, Barranca. **L.P:** Dir. J. Lesmar.
156) **R. Imperial,** Ca. 2 de Mayo 573, Cañete.
157) **R. Latinoamericana,** Ca. Independencia s/n, Ica.
158) **R. Sonorama,** Huancayo.
159) **R. Collao,** Juliaca.
160) **R. Nor Peru,** Ca. Lima 630, Chepén.
161) **R. Centro,** Pilcomayo, Huancayo, **L.P:** Dir: Luis Petrick M.
162) **R. Chinchaysuyo,** Jirón Maurta 189, Chincha Alta.
163) **R. Nacional,** Puno.
164) **R. Huascarán,** Gamarra 104, Huaráz. **L.P:** Dir: H. Barrenechea.
165) **R. Mariana,** Sede del Vicariato Apostólico de Iquitos, Iquitos.
166) **R. Universo,** M. Orbegoso 266, Trujillo.
167) **R. San Pedro de Grocio Prado,** Av. Progreso s/n, Dist. Grocio Prado, Chincha. **L.P:** Dir: D. Villa de la Cruz.
168) **R. Albujar,** Ca. Victoria 299, Guadalupe.
169) **R. Selecciones,** Moguegua 648, Tarma. **L.P:** Dir: C. Anagua Ch.
170) **R. La Merced,** Av. Junin 163, La Merced. **L.P:** Dir: T. Fidelhi E.
171) **R. Noticias,** Callao 458, Lima.
172) **La Voz de Lucanas,** Piquio.
173) **R. Atalaya,** Manco Copac 333, La Victoria, Lima.
174) **R. Latina,** Ca. San Martin 561, Tacna. **L.P:** Dir: C. Urday B.
175) **R. Monterreal,** Pucallpa.
176) **R. Barranca,** Av. Grau 270, Barranca.
177) **R. Chincha,** Los Angeles 322, Chinca. **L.P:** Dir: C. Jordán C.
178) **R. Huaral,** Av. Cahuaz 447, Huaral.
179) **R. Ayacucho,** 28 de Julio 203, Ayachucho.
180) **R. Jauja,** Jirón Bolognesi 522, Jauja.
181) **R. San Francisco,** Av. Sánchez Cerro 450, Piura.
182) **R. Urubamba,** Urubamba, Cuzco.
183) **R. San Felipe,** Parroquia de Garumas.
184) **R. Interamericana,** Alfonso Ugarte 441, Chimbote.
185) **R. Exito,** Jr. Callao 159, Huacho.
186) **R. Sargento Lores,** Inspeccion Gen. del Ejercito. Iquitos.
187) **R. Abancay,** Ca. Lima 206, Abancay.
188) **R. Huancavelica,** Chachapoyas 104, Huancavelica.
189) **R. Atahualpa,** Cajamarca. **L.P:** Dir: J. Castro S.
190) **R. El Pueblo,** Pasaje Diaz s/n, Ica. **L.P:** Dir: P. Flores M.
191) **R. Fessa,** Av. Mariscal Benavides, Cañete.
192) **R. Perú,** Jr. Trujillo 628, Chepén. **L.P:** Dir: I. Verástegui B.
193) **R. Toquepala,** Campamento de Empleados Toquepala, Tacna.
194) **R. San Isidro,** Av. Arequipa 3755, Lima.
195) **R. Oriente,** Av. Bolivar 14, Yurimaguas.
196) **R. Catacaos,** Ca. Comercio 590, Catacaos.
197) see 32)
198) **R. Universal,** Ca. Real 578, Tambo, Huancayo.
199) **R. El Tiempo,** Ca. Santa Marta 310, Arequipa.
200) **R. Internacional,** Av. 8 de Setiembre 210, Pisco.
201) **R. Imperial,** Ca. Bolivar 554, Junin. **L.P:** Dir: A. Torres A.
202) **R. Chimbote.**
203) **R. Chimu,** Huaráz.
204) **R. La Voz del Sur,** Ca. Aniceto Ibarra 436, Tacna.
205) **R. Imperio,** Ca. República 139, San Carlos, Chiclayo.
206) **R. San Martin,** Arequipa.
207) **R. Imperio,** Chiclayo.
208) **R. Moquegua,** Sede de la Soc. Filarmónica, Moquegua (see also 31).
209) **R. Sudamericana,** Ca. Junin 57, Pacasmayo.
210) **R. Universidad,** Univ. Nacional de San Augustin, Arequipa.
211) **R. Reloj,** Jr. Ocoña 484, Lima. **D.Prgr:** 24 h.
212) **R. Sur Peruana,** Apt. 514, Arequipa.
213) **R. San Pedro,** Av. 27 de Octubre, Mala. **L.P:** Dir: R. Pachas C.
214) **R. Heroica,** Trujillo.
215) **R. Universidad,** Local de la Universidad Nacional del Cuzco.
216) **R. Primavera,** Trujillo.
217) **R. Prelatura Nullius de Sicuani,** Apt. 46, Cuzco.
218) **R. Universal,** José y Garcia 164, Huacho. **L.P:** Dir: C. Minaya.
219) **R. Regional,** Chimbote.
220) **R. Oxapampa.**
221) **R. Agricultura,** Paseo Colon 417, Lima.

SURINAM

L.T: GMT —3½ h—**Pr.L:** Dutch, Talkie, Hindustani.

RADIO PARAMARIBO (Comm.)

ADDR: P.O. Box 975, Paramaribo. **Te:** 4131. **Cable:** Rapar. **L.P:** Dir. R. Smiet.
STATION: 600kHz 500m 10kW.
HOME SCE: 08.55-03.30—**N. in Dutch:** W 10.05, 11.30, 13.30, 17.30, 19.45, 22.30, 01.30. Sun 23.30—**Hindustani:** Mon-Fri 23.30-01.30, Sat 00.30-02.30, Sun 09.30-12.15 and 20.00-21.30—**Chinese:** Sun 19.30-20.00—**Indonesian:** Sun 12.30-19.30
ANN: "R. Paramaribo Rapar, de stem van Suriname, op de 500 m of 600kHz". E: "R. Paramaribo Rapar, the voice of Surinam, operation on 500m or 600kHz"—**PUB:** "Rapargids" (monthly).

RADIO APINTIE (Comm.)

ADDR: P.O. Box 1838, Paramaribo. **Te:** 5224. **Cable:** Fructomel.
L.P: Dir: A. Kamperveen.
STATION: PZX7 840kHz 355m 1kW — **HOME SCE:** 09.00-03.30. **N. in Dutch:** W 13.30, 17.45, 22.30; Sun 11.30—**N. in Local Lanaguage:** 09.45, 01.10 (exc. Sat)—**Hindustani:** W 09.00-09.30 (Sat 09.30-09.40), 19.00-21.30 (Wed, Thurs 21.00); Sun 18.15-21.00—**Chinese:** Sun 17.30-17.45—**Indonesian:** Wed, Thurs 21.00-21.30—**ANN:** "R. Apintie, Paramaribo"—**INT-SIG:** The beat of the Apintie drum.

R. NICKERIE N.V. (Priv. Comm.)

ADDR: Waterloo-straat, Nieuw Nickerie.
STATION: 3240kHz 92.59m 0.075kW—**HOME SCE:** 09.30-01.30.

STICHTING RADIO-OMROEP SURINAME (Gov. Comm.)

ADDR: P.O. Box 271, Paramaribo. **Te:** 98115—**L.P:** Gen. Mgr: W. H. Cromwell.
STATIONS: 725kHz 411m 50kW—**FM:** 93.1MHz 0.01kW.
HOME SCE: in Dutch, Negro English, Hindi, Indonesian: 09.30-03.30 **N:** Every h on the h. **English:** 00.00.
ANN: "This is SBC, the Suriname Broadc. Corpo. Broadc. from Paramaribo, the Capital City"—**V.** by QSL-card or letter. Recordings accepted—**F.PL:** regular sw-tr's to take place in the near future.

RADINKA (Priv.)

ADDR: Pad van Wanica 51, Paramaribo—**L.P:** Dir: S. Radhakiskun
STATION: 640kHz 468m 1kW: 70 hrs weekly.

URUGUAY

L.T: GMT—3 h—**Pr.L:** Spanish.

DIRECCION DE RADIOCOMUNICACIONES, Montevideo.

ASOCIACION NACIONAL DE BROADCASTERS URUGUAYOS (ANDEBU)

ADDR: Ca. Yi 1264, Montevideo. **Te:** 84456. **Cable:** Andebu.
STATIONS: All St. comm. exc. 7), 33), 34). * = inactive.
Short Waves: Call: CX-. Location: Montevideo exc. where indicated.

	Call	kHz	m	kW	Name & h of tr.
1)	A2	6000	50.00	5	R. Sur: 10.00-03.00
2)	A30	6035	49.71	1	R. Nacional: 15.00-03.00
3)	A61	*6045	49.63	1	R. Sport
4)	A53	6055	49.55	5	La Voz de Melo, Melo: 10.00-03.00
5)	A3	6075	49.38	2.5	R. Ariel: 10.00-03.00
6)	A73	6115	49.06	1	R. Clarin: 10.30-02.00
7)	A4	6125	48.98	10	S.O.D.R.E: 13.00-03.10
8)	A20	6148	48.80	10	R. Monte-Carlo: 10.00-03.00
9)	A13	6155	48.74	10	R. Carve: 10.00-04.00
10)	A21	6170	48.62	1	R. Fenix: 14.00-16.00, 21.00-01.00

	Call	kHz	m	kW	Name and h of tr.
11)	A71	9515	31.53	10	R. Sarandí: 15.00-22.00
8)	A72	9595	31.27	10	R. Monte-Carlo: 14.00-19.00
7)	A6	9620	31.19	20	S.O.D.R.E: 13.00-03.10
12)	A7	11735	25.56	5	R. Oriental: 10.00-04.00
3)	A19	11835	25.35	5	El Espectador
11)	A68	11885	25.24	10	R. Sarandí: 22.00-01.00
7)	A10	11900	25.21	20	S.O.D.R.E: 13.00-03.10
4)	A64	15225	19.70	25	La Voz de Melo
7)	A18	15270	19.65	1	S.O.D.R.E: 12.00-03.10
11)	A60	15385	19.49	10	R. Sarandí: 01.00-08.00

Medium Waves: ° = Short Wave.

	Call	kHz	kW		Call	kHz	kW
13)	CW1	550	4.5	27)	CX42	1370	2.5
6)	CX58	°580	0.5	28)	CW45	1390	0.25
14)	CX4	610	5	29)	CX140	1400	10/5
7)	CX6	°650	50	30)	CX44	1410	5
15)	CW77	680	1/0.25	31)	CW133	1420	0.25
11)	CX8	°690	10/5	32)	CW43	1420	1/0.5
5)	CX10	°730	5/2.5	33)	CW25	1430	1
12)	CX12	°770	25	34)	CX46	1450	5/2.5
3)	CX14	°810	25	35)	CW46B	1460	0.25
16)	CW23	820	1/0.5	36)	CW46C	1460	0.03
9)	CX16	°850	50	37)	CX147	1470	1.05
3)	CX18	°890	10/5	38)	CW43B	1480	1.5
17)	CW17	900	0.25	39)	CX48	1490	2
8)	CX20	°930	10	40)	CW47B	1510	0.1
18)	CX22	970	1	41)	CX152	1520	2/0.25
9)	CX24	1010	10	42)	CX50	1530	1.25
7)	CX26	°1050	20	43)	CV153	1530	1
19)	CX28	1090	15	44)	CX155	1550	0.25
20)	CW31	1120	2.5	45)	CW51	1560	0.5
2)	CX30	°1130	10/5	46)	CX156	1560	1
1)	CX32	°1170	10/5	47)	CV156	1560	0.7
21)	CX33	1200	1	48)	CW52	1570	0.25
22)	CX34	1210	2	49)	CV157	1570	0.1
23)	CW35	1240	2.5	50)	CX157	1570	1
24)	CX36	1250	3.1	51)	CW54	1580	0.25
3)	CW37	1260	1/0.25	52)	CV158	1580	0.1
7)	CX38	°1290	1	53)	CX159	1590	0.25
25)	CW39	1320	0.5/0.1	54)	CW56	1600	0.25
10)	CX40	°1330	1	55)	CV160	1600	0.1
4)	CW53	°1340	2.5/1	56)	CX160	1600	1
26)	CW41	1360	5				

Short Waves:

1) Compañía Uruguaya de Publicidad S.A, Yi 1383, Montevideo.
2) O.R.O.S.A, Plaza Independencia 846, Montevideo. **V.** by QSL-card.
3) Difusoras del Uruguay S.A, Soriano 1287, Montevideo. **Te:** 81481. **Cable:** Difuruguay. **L.P:** Dir. Gen: H. Amengual, Dir. Tec: R. Danilo V. **D.Prgr:** CX18 **R. Libertad Sport:** 10.00-03.00, CW37 **Difusora Rochense:** Dr. Julián Grana 119, Rocha: 11.00-24.00. **Ann:** "Transmite CX14 El Espectador, de Montevideo, Uruguay con sus ondas cortas CXA19 y CXA61 en las bandas de 25 y 49 m". **Int-Sig:** Vibraphone. **V.** by letter. Recordings accepted.
4) Montevideo 721, Melo. **D.Prgr:** CW53 11.00-03.00.
5) Olimar 1472, Montevideo. **V.** by QSL-card.
6) Colonia 1487, Montevideo. **Te:** 405841. **L.P:** Dir: Ing: F. D. Toureilles, Dir. Tec: G. Duarte. **D. Prgr:** N: 11.00, 13.00, 15.00, 19.00, 21.00, 23.00, 01.00. **Ann:** "Transmite Clarin, República Oriental del Uruguay". **V.** by letter.
7) Mercedes 823, Montevideo. **Cable:** Sodre. **D.Prgr:** On 650/9620/11900kHz: 13.00-03.10; CXA38: 21.00-03.00. **N:** 13.00, 15.00, 20.00, 24.00, 02.55. **Ann:** "Servicio Oficial de Difusión R. Electrica Montevideo con sus emisoras". **Int-Sig:** First movements of "Campo". **V.** by QSL-card.
8) 18 de Julio 1224, Montevideo. **Cable:** Montecarlo. **L.P:** Dir. Gen: D. Romay. Dir. Tec: C. Beisso. **V.** by letter. Recordings accepted.
9) Mercedes 973, Montevideo. **Te:** 983471. **Cable:** Sadrep. **L.P:** Dir. Gen: R. Fontaina. Mgr. J. E. de Feo. Dir Tec: A. Salvo. **D.Prgr:** CX16: 09.00-04.00; CX24: 10.00-03.00. **N:** 10.00, 14.00,15.00, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 24.00, 01.30. **Int-Sig:** Gong. **Ann:** "CX16 R. Carve de Montevideo con CXA13 en Onda Corta". **V.** by letter. Recordings accepted. Rp. CX24: "La Voz del Aire".
10) Rio Branco 1366, Montevideo. **L.P:** Dir: J. J. Rabassa. **D.Prgr:** CX40:10.00-05.00 (Sat 06.00).
11) Corporación de Publicidad S.A, Enriqueta Compte y Rique 1282, Montevideo. **Te:** 28185. **D.PRGR:** CX8: 08.00-03.00. **N:** every h on the h. **V.** by letter.
12) Olimar 1364, Montevideo. **Te:** 985183. **D.Prgr:** 10.00-04.00. **N:** 14.00, 16.00, 20.00, 23.00, 24.00, 01.00, 02.30, 03.30. **Ann:** "Transmiten CX12 y CXA7, emisoras de R. Oriental de Montevideo, Uruguay". **Int-Sig:** Vibraphone or Xylophone. **V.** by QSL-card and letter.

Medium Waves:

13) **R. Colonia,** Ca. Rivadavia 383, Colonia.
14) **R. Rural,** 18 de Julio 1513, Montevideo.
15) **R. Tabaré,** Uruguay 678, Salto.
16) **R. Cultural,** Lavalleja 42-48, Salto.
17) **R. Frontera,** Garzón 428, Artigas.
18) **R. Universal,** Soriano 1217, Montevideo.
19) **R. Imparcial,** Av. Algraciada 1708, Montevideo. **D.Prgr:** 24 h. **V.** by QSL-card.
20) **R. Salto,** Brasil 715, Salto. **V.** by letter.
21) **Difusora Florida,** Gallinal 696, Florida.
22) **R. Artigas,** Av. Millan 2370, Montevideo.
23) **R. Paysandú,** 18 de Julio 1044, Paysandú.
24) **Broadc. Centenario del Uruguay,** Olimar 1364, Montevideo.
25) **La Voz de Paysandú,** 18 de Julio 614, Paysandú.
26) **Broadc. San José,** Treinta y Tres 890, San José.
27) **R. del Pueblo,** Mercedes 1805, Montevideo.
28) **Difusora Treinta y Tres,** Pablo Zufriategui 230, Treinta y Tres.
29) **R. Zorilla de San Martin,** 18 de Julio 304/10, Tacuarembó.
30) **R. Austral,** 18 de Julio 965, Montevideo.
31) **La Voz de Artigas,** Lecueder 291, Artigas. **Te:** 47. **V.** by letter and QSL-card. Recordings accepted.
32) **R. Lavalleja,** José E. Rodó 530, Minas.
33) **R. Durazno,** Ca. Dr. E. Penza 804, Durazno.
34) **R. América,** Plaza Independencia 846, Montevideo.
35) **Liceo de Dolores,** Liceo de Dolores, Soriano.
36) **Liceo de San Carlos,** San Carlos, Maldonado.
37) **R. Montevideo,** Rio Branco 1366, Montevideo.
38) **R. Internacional,** Sarandí 792, Rivera. **D.Prgr:** 10.00-03.00
39) **R. Femenina,** 18 de Julio 1333, Montevideo.
40) **R. Berna,** Neuva Helvecia.
41) **R. Cerro Largo,** Ituzajngo 660, Melo.
42) **R. Independencia,** Paysandú 1186, Montevideo.
43) **R. Rincón,** Treinta y Tres 3223, Fray Bentos.
45) **R. Maldonado,** Isle de Gorriti 819, Maldonado.
46) **R. Americana,** Trinidad.
47) **R. Vichadero,** Av. Centenario, Vichadero.
48) **R. Litoral,** España 1157, Fray Bentos.
49) **Difusora del Norte,** Bella Union.
50) **R. Canelones,** Canelones.
51) **Emisora del Este,** Domingo Perez 491, Minas.
52) **R. Rivera,** Monseñor Vera, 1132, Rivera.
53) **Emisora Real de San Carlos,** Av. Gral Flores 468, Colonia.
54) **Difusora Soriano,** Florida 568, Mercedes.
55) **R. San Carlos,** Sarandí 774, San Carlos, Maldonado.
56) **R. Rio Branco,** Rio Branco.

VENEZUELA

L.T: GMT – 4 h — **Pr.L:** Spanish.

MINISTERIO DE COMUNICACIONES

ADDR: Dirección de Telecomunicaciones, Division de Radiodifusion, Caracas.

CAMARA VENEZOLANA INDUSTRIA RADIO Y TELEVISION

ADDR: Apt. 3955, Caracas. **Cable:** Camradio. **Te:** 425805.
STATIONS: All st's comm. exc. (53) (Gov.) and 5) (Educational)
Short Waves: Call: YV—.

	Call	kHz	m	kW	Name & h of tr.
1)	PL	2340	128.4	1	R. Nueva Esparta, Polamar: 10.00-04.00
2)	PH	2350	127.6	1	R. Guarico, San Juan de los Morros
3)	QG	2360	127.1	0.5	R. Carúpano: 09.00-03.00
4)	QP	2370	126.1	1	R. Puerto La Cruz: 10.00-04.00
5)	PM	2430	123.5	1	Escuelas Radiofonicas, San Fernando: 22.00-02.00
6)	LG	2440	122.9	1	R. Girardot, Maracay: 10.00-22.00
7)	OX	2450	122.5	1	R. Los Llanos, Calabozo: 10.00-04.00
8)	NI	2470	121.5	0.2	R. Carorá: 11.00-02.00
9)	PD	2480	120.9	1	R. Tiempo, Caracas: 10.00-04.00
10)	RV	3205	93.60	1	R. Litoral, Naiguatá: 21.00-02.00
11)	OE	3215	93.30	1	Ondas Panamericanas, El Vigia: 10.00-04.00
12)	KV	3235	92.74	1	Emisora Vargas, La Guaira: 10.00-03.00
13)	KT	3245	92.45	1	R. Libertador, Caracas
14)	QL	3255	92.15	1	La Voz del Tigre: 11.00-03.00
15)	OC	3265	91.87	1	R. Nirgua: 10.00-04.00
16)	MC	3275	91.60	1	R. Mara, Maracaibo: 10.00-02.30
17)	LE	3285	91.32	1	R. Puerto Cabello: 10.00-03.00
18)	OG	3295	91.10	1	R. Trujillo: 10.30-02.00
19)	KX	3305	90.77	1	La Voz de la Patria: Caracas: 10.00-03.00
20)	LI	3315	90.50	1	R. Maracay: 11.00-03.00
21)	RA	3325	90.22	5	R. Monagas, Maturin: 10.00-04.00
22)	PE	3345	89.68	1	R. Central, Maracay: 10.00-04.00
23)	LC	3355	89.41	1	R. Valencia: 10.00-03.00
24)	PM	3365	89.15	1	R. Tovar: 09.55-02.00
25)	MI	3375	88.89	1	La Voz de la Fé, Maracaibo: 20.00-04.00
26)	QI	3385	88.63	1	R. Barcelona: 21.00-04.00
27)	OK	3395	88.37	1	R. Universidad, Mérida: 11.00-04.00
28)	PP	4760	63.03	1.5	R. Frontera, San Antonio: 10.00-04.00
29)	NW	4770	62.89	1	R. Bolivar, Ci. Bolivar: 10.00-03.00
30)	LA	4780	62.76	1	La Voz de Carabobo, Valencia: 10.00-03.30
31)	QN	4790	62.63	1	Ondas Porteñas, Pto. La Cruz: 10.00-03.00
32)	MO	4800	62.50	10	R. Lara, Barquisimeto: 09.58-04.00
33)	MG	4810	62.37	1	R. Popular, Maracaibo: 10.00-03.00
34)	RC	4820	62.24	1	La Voz de Apure: 11.00-02.00
35)	OA	4830	62.11	1	La Voz del Táchira, San Cristóbal: 10.00-04.00
36)	OI	4840	61.98	1	R. Valera: 10.00-04.00
37)	KF	4850	61.86	1	Ondas Populares, Caracas: 10.00-04.00
38)	QE	4860	61.73	1	R. Mundo, Maracaibo: 10.00-04.00
39)	KP	4870	61.60	5	R. Tropical, Caracas: 10.00-04.00
40)	MS	4880	61.48	10	R. Universo, Barquisimeto: 10.00-04.00
41)	KB	4890	61.35	5	R. Dif. Venezuela, Caracas: 10.00-04.00
42)	NK	4900	61.22	10	R. Juventud, Barquisimeto: 10.00-04.00

Venezuela

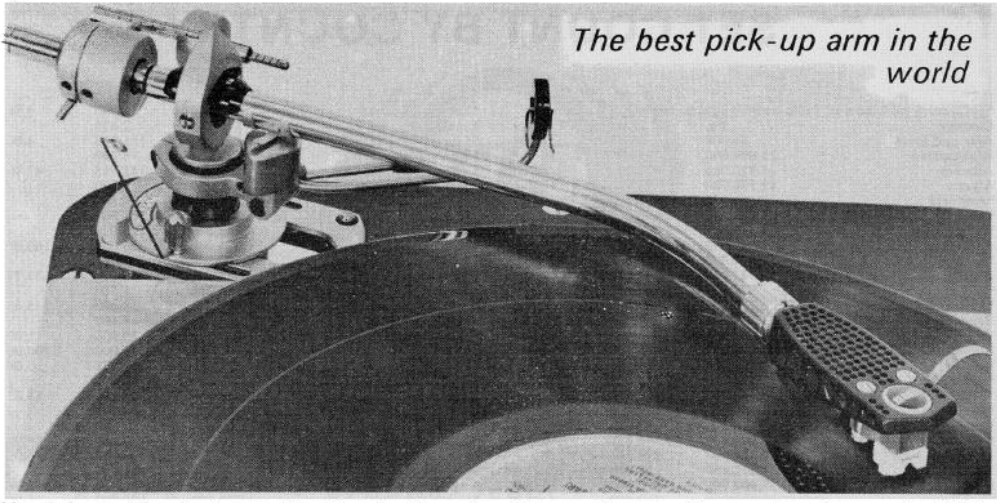
	Call	kHz	m	kW	Name & h of tr.
2)	PN	4910	61.10	10	Esc. Radiofonicas, S. Fernando de Apure
43)	KR	4920	60.99	7.5	R. Caracas: 10.00-05.00
44)	OT	4930	60.85	1	R. Junin, S. Cristóbal: 10.00-04.00
45)	PA	4940	60.73	10	R. Yaracuy, San Felipe: 10.00-04.00
46)	NM	4950	60.60	1	R. Coro: 10.00-03.00
47)	AQ	4960	60.48	1	R. Sucre, Cumaná: 10.00-03.00
48)	LK	4970	60.36	10	R. Rumbos, Caracas: 09.30-04.00
49)	OC	4980	60.25	1	Ecos del Torbes, S. Cristóbal: 10.00-03.00
50)	MQ	4990	60.12	10	R. Barquisimeto: 10.00-04.00
51)	RW	5010	59.88	1	R. Boconó, Boconó: 12.00-04.00
52)	KO	5020	59.76	10	R. Nacional, Caracas: 10.00-04.00
53)	MK	5030	59.64	7.5	R. Continente, Caracas: 09.30-03.00
54)	QH	5040	59.55	1	R. Maturín: 10.00-04.00
55)	KD	5050	59.41	2	R. Cultura, Caracas: 10.00-03.00
56)	NL	6000	50.00	1	R. Miranda, Los Teques: 10.00-04.00
57)	NK	6110	49.10	1	R. Cabimas: 10.00-03.00
52)	KO	6170	48.62	10	R. Nacional, Caracas: 10.00-04.00
50)	XJ	9510	31.55	10	R. Barquisimeto: 11.00-02.00
	MZ	9530	31.48	1	Various tr's. Maracaibo
	OM	9570	31.55	1	Various tr's, S. Cristóbal
52)	SC	9640	31.12	10	R. Nacional, Caracas: 22.00-04.00
24)	OS	9750	30.77	1	R. Tovar, Tovar: 10.00-04.00
52)	LS	*11725	25.58	50	R. Nacional, Caracas
52)	RN	*11750	25.53	10	R. Nacional, Maracaibo
52)	—	*11770	25.49	10	R. Nacional, Pto. La Cruz
52)	KI	*11970	25.06	50	R. Nacional, Campo, Carabobo
52)	RO	*15390	19.49	10	R. Nacional, San Cristóbal
52)	KN	*15400	19.48	50	R. Nacional, Campo Carabobo
52)	RP	*17840	16.82	10	R. Nacional, Ci. Bolivar

Medium Waves: Call: YV—. °) also Shortwave.

	Call	kHz	kW		Call	kHz	kW
58)	LX	560	50	2)	LN	°1060	1
25)	MJ	°580	10	50a)	OE	°1060	10
53)	KL	°590	20	12)	KW	°1070	1
47)	QB	°600	10	78)	PF	1070	1
59)	NO	610	10	79)	OV	1080	10
60)	SE	620	10	26)	QJ	°1080	10
52)	KA	°630	10	45)	PB	°1090	10
52)	SL	630	10	24)	OP	°1100	10
31)	QO	°640	10	55)	KE	°1100	10
6)	LH	°650	50	3)	QT	°1110	10
61)	NA	660	10	80)	MF	1120	10
48)	LL	°670	50	81)	PZ	1120	1
29)	QF	°680	10	10)	RU	°1130	1
50)	MR	°690	50	82)	PY	1130	1
33)	MH	°700	10	8)	MU	°1140	10
19)	KY	°710	5	52)	SM	1140	1
62)	QR	720	10	83)	MV	1150	1
40)	MT	°730	10	84)	QD	1150	1
63)	NC	740	10	85)	RR	1160	10
43)	KS	°750	10	86)	SD	1160	10
4)	QQ	°760	10	87)	QV	1170	10
52)	KK	770	50	88)	SS	1170	10
49)	OD	°780	10	54)	OR	°1180	10
48)	KC	°790	5	89)	MB	1180	10
64)	LP	820	10	90)	RE	1190	10
65)	SH	820	10	9)	OZ	°1200	10
56)	LT	°830	10	91)	NH	1200	1
42)	MY	°840	10	46)	MN	°1210	1
23)	LD	°850	10	92)	QZ	1210	10
44)	OL	°860	10	34)	RD	°1220	10
13)	KU	°870	5	93)	NT	1230	10
32)	MP	°880	10	36)	OH	°1230	1
66)	LW	890	10	94)	LQ	1240	1
16)	MD	°900	10	95)	QM	1250	10
67)	RQ	910	10	57)	ML	°1250	1
1)	QX	°920	10	15)	RY	°1260	1
20)	LJ	°930	10	11)	OU	°1270	1
68)	NN	940	10	96)	TR	1270	1
37)	KG	°950	5	52)	SQ	1280	10
21)	RB	°960	10	97)	NB	1280	1
28)	OO	°970	10	17)	LF	°1290	1
22)	LR	°970	10	98)	KH	1300	10
69)	ND	980	10	99)	NS	1300	1
14)	MQ	°980	10	100)	PG	1310	1
39)	RT	°990	10	101)	SG	1320	5
35)	OB	°1000	10	7)	OY	°1330	1
70)	NM	1000	10	102)	QU	1340	1
71)	PC	1010	10	103)	NG	1360	1
72)	SF	1020	10	104)	LO	1370	1
73)	MX	1020	10	51)	OW	°1380	1
74)	TD	1030	1	105)	NY	1410	1
75)	QY	1030	10	106)	ST	1410	5
76)	ON	1040	10	18)	OF	°1420	1
30)	LB	°1040	10	107)	NJ	1430	1
52)	KZ	1050	10	108)	FR	1440	1
77)	NU	1050	1	27)	OJ	°1450	1

Short Waves:

1) Apt. 58, Porlamar. **Te:** 2270. **Cable:** Covder.
2) Apt. 25, S. Juan de los Morros. **Te:** 81. **L.P:** Dir. Gen: J. Ghersy. Dir. Tec: S. Dominguez C. 3) Apt. 590, Carúpano. **Te:** 1450.
4) Apt. 4082, Puerto La Cruz. **Te:** 2057.
5) Oficina de Educación de Adultos, San Fernando. **L.P:** Dir: L. Beltran V. Dir. Tec: Dr. F. Adam. **Ann:** "Estas son las Escuelas Radiofonicas de Venezuela . . . . transmitiendo desde San Fernando, Capital del Edo Apure, República de Venezuela". **V.** by letter. Recordings accepted.
6) Ca. Soublette Sur 11, Maracay. **Te:** 6495.
7) Calabozo.
8) Carrera 10 No. 5-74, Carora. **Te:** 1121. **L.P:** Dir: C. J. Gonzalez. **D.Prgr: N:** 11.00, 14.30, 16.00, 22.30. **Ann:** "R. Carora YVMU 1140 kHz onda larga; YVNI 2470kHz onda corta transmitiendo desde Carora capital del Distrito Torres, Estado Lara, República de Venezuela, Patria del Libertador". **Int-Sig:** Xylophone. **V.** by letter. Recordings accepted.
9) Ca. Villaflor 3, Caracas. **Te:** 722729.
10) Av. Playa 120, Macúto. **Te:** 79. **L.P:** Dir: L. Landaeta. **L.** Dir. Tec: R. Carvajal. **D.Prgr:** 11.00-02.00. **N:** 11.00 and hourly. **Ann:** "Esta Es R. Litoral, Una Emisora al Servicio de Colectividad transmitiendo desde Macúto, Rep. de Venezuela. Patria del Libertador." **V.** by letter. Recordings accepted. **F.Pl:** 10kW (mw).
11) Apt. 31, El Vigia. **Te:** 1355.
12) Av. Soublette, La Guaira. **Te:** 5401. **L.P:** Dir: P. Sosa Guzmán.
13) Palma Miracielos, Edif. "Henry Clay", 2do piso, Caracas. **Te:** 414973.
14) Apt. 430, El Tigre. **Te:** 1801. Dir: C. Poleo.
15) Edif. Yaracuy, Nirgua. (YVRY = R. Horizonte).
16) Apt. 100, Maracaibo. **L.P:** Dir: L. A. Goveá.
17) Apt. 4, Pto, Cabello. **Te:** 33-88. **L.P:** Dir. Gen: S. Guevara V. Dir. Tec: P. J. Curvelo. **D.Prgr: N:** 11.00, 03.00 and short N every half h. 10.00-04.00. **Ann:** "Esta es R. Puerto Cabello, una Emisora al servicio de su región desde Puerto Cabello, Venezuela, Patria del Libertador y Patria Democrático de America". **V.** by letter.
18) Ca. Independencia 200, Trujillo. **Te:** 1052. **Cable:** Radiotrujillo. **L.P:** Dir: P. J. Torres.
19) Apt. 4173, Caracas. **Te:** 425358. **L.P:** Dir: G. Velos M. **V.** by letter.
20) Ca. Miranda Oeste 76, Maracay. **Te:** 5591.
21) Apt. 140, Maturín. **Te:** 1001. **Cable:** Covder. **L.P:** Dir. Tec: R. Philips. **Ann:** "R. Monagas, YVRB 960kc onda larga, YVRA 3325kc onda corta banda de 90 metros YVRB/FM 88.5MC". **V.** by letter. Re. in Sp, E.
22) Apt. 4545, Maracay. **Te:** 7296.
23) Apt. 248, Valencia. **Te:** 4502. **L.P:** Dir: M. Aché G.
24) Cra. 4 No. 5-48, Tovar. **Te:** 188255. **L.P:** Dir: A. Sánchez P.
25) Apt. 459, Maracaibo. **Te:** 74746. **L.P:** Dir. Gen: O. Soto L. Dir. Tec: J. Salcedo. Dir. Prgr: E. I. Duque. **D.Prgr:** 10.00-03.55.
26) Apt. 88, Barcelona. **Te:** 5540. **L.P:** Dir: E. Sotilo. **D.Prgr** (mw): 10.00-04.00. **N:** 10.00, 15.30, 21.30. **V.** by letter. Recordings accepted.
27) Apt. 74, Mérida. **Te:** 1090. **Cable:** Radiversidad. **L.P:** Dir: E. O. Dubuc. **D.Prgr: N:** 11.00, 15.30, 22.15, 01.00, 03.45. **Ann:** "R. Universidad la Emisora de Mérida". **V.** by letter. Recordings accepted.
28) Apt. 338, San Cristóbal. **Te:** 1197. **L.P:** Dir: G. Suarez. Dir. Prgr: L. Sanchez. A. **D.Prgr: N:** 11.00, 22.00. **Ann:** "En el centro de su dial transmite su emisora musical, R. Frontera la autencia emisora internacional de Venezuela YVOO 960kHz, YVPP 4760kHz en banda de 60m, YVLS 11725kHz desde San Antonio del Táchira, la villa heroica en Venezuela, Patria del Libertador y puerto del Turismo en la America del Sur". **V.** by QSL-card. Recordings accepted. **FM:** 104.1MHz 0.5kW.
29) Ca. Dalle Costa 5, Ci. Bolivar. **Te:** 20320. **L.P:** Dir: A. J. Isturiz. Dir. Tec: J. Bisconti. **D.Prgr: N:** 11.15, 16.30, 02.45. **V.** by QSL-card. **FM:** 93.54MHz 60kW.
30) Av. 100 No. 97-100. **Cable:** Radiolavoz. **Te:** 3111. **L.P:** Dir: R. Martinez. **V.** by letter.
31) Apt. 4123, Puerto La Cruz. **Te:** 2146. **Cable:** Ondport. **L.P:** Dir. Gen: R. Bellorin M. Dir. Tec: R. Alfonzo. **Ann:** "Transmite Ondas Porteñas, la emisora que impera en Oriente, desde Puerto La Cruz, Venezuela, Patria del Libertador, Puerta del Turismo en América del Sur". **FM:** 168.4MHz. **V.** by letter. Recordings accepted.
32) Apt. 576, Barquisimeto. **Te:** 20800. **Cable:** Radiolara. **L.P:** Dir. Gen: R. A. Segúra. Dir. Tec: L. M. Pick. **Ann:** "R. Lara, la emisora musical de Lara". **V.** by QSL-card. **FM:** 101.7MHz (Official sw freq: 4800kHz).
33) Apt. 347, Maracaibo. **Te:** 72211. **Cable:** Radiopopular. **L.P:** Dir: J. Higuera M. **V.** by QSL-card.
34) Apt. 14, San Fernando Apure. **Te:** 2628. **L.P:** Dir: R. Cestari. Dir. Tec: J. Marcano C. Dir. Prgr: J. Antonio C. **V.** by QSL-card. **FM:** 101.9MHz.
35) Apt. 37, San Cristóbal. **Te:** 11002. **L.P:** Dir. Gen. & Dir. Tec: J. M. Diaz González. **Ann:** "La Voz del Táchira, YVOB 1000kc Onda Larga YVOA 4830kc Onda Corta y YVOM 9750kc Banda Internacional de 31 mts; **FM:** 88.3 y 98.3Mc por segundo, desde San Cristóbal en Venezuela, Patria del Libertador y Pais Demicrático de America". **V.** by QSL-card or letter. Re. in Sp, E.
36) Ave. 10 No. 9-31, Valera. **Te:** 3211. **L.P:** Dir. Gen: C. Julio B. Dir. Tec: J. Hammerlok. **V.** by QSL-card. Recordings accepted. **F.PL:** 10kW (mw).
37) Apt. 2070, Caracas. **Te:** 628118. **V.** by QSL-card.
38) Av. Paraíso Esq. con Ca. 67 No. 24-88, Maracaibo. **L.P:** Dir: A. M. Flores V.
39) San Jacinto 9, Caracas. **Te:** 818331. **L.P:** Dir: A. J. Istúriz. **Ann:** "En cualquir sitio R. Tropical y su gran Circuito Nacional RC". **V.** by QSL-card.
40) Apt. 567, Barquisimeto. **Te:** 20800. **Cable:** Universo. **D.Prgr:** N: 16.00, 23.00. **Ann:** "R. Universo, La Voz Amiga de Venezuela". **V.** by QSL-card. Recordings accepted. **FM:** 96.9MHz (Official freq. 4880kHz).
41) Cipreses a Miracielos 1, Caracas. **Te:** 414474. **L.P:** Dir: A. Raidi. **Ann:** "Radiodif. Venezuela — máxima en potencia y calidad transmitiende desde Caracas, Venezuela, cuna del Libertador".
42) Apt. 567 y 576, Barquisimeto. **Te:** 20800. **Cable:** Radiojuventud. **L.P:** see 32. **Ann:** "R. Juventud, una emisora joven para la gente joven". **V.** by QSL-card.
43) Apt. 2058, Caracas. **Te:** 424916. **Cable:** Coraven. **D.Prgr:** N: Every half h. **Ann:** "R. Caracas". **V.** by QSL-card or letter.
44) Apt. 220, San Cristóbal. **Te:** 11929.
45) 4a Ave. No. 123, San Felipe. **Te:** 1056. **L.P:** Dir. A. Segura. Dir. Tec: L. M. Pick. **D.Prgr:** N: 11.00, 16.00, 23.00. **V.** by QSL-card. Recordings accepted. (Official sw freq. 4940kHz.)



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46) Apt. 7424, Coro. **L.P:** Dir. Gen: R. Leyba. Dir. Tec: V. J. Róca. **Int-Sig:** Opens and closes with the march "Los Tres Colores" and the Nat. Anthem. **V.** by letter.
47) Apt. 26, Cumaná. **Te:** 1301. **L.P:** Dir: P. J. Morales. **V.** by letter.
48) Apt. 2618, Caracas. **Te:** 415963. **L.P:** Dir. Gen: N. Colmenares. Mgr: A. Serrano. Dir. Tec: A. Gulbis. **D.Prgr: N:** 10.00, 15.30, 21.30, 03.30. **Ann:** "Transmite R. Rumbos, La Emisora de Venezuela, Cadena Nacional". **V.** by QSL-card. Recordings accepted.
49) Apt. 152, San Cristóbal. **Te:** 11680. **Cable:** Ecostorbes. **L.P:** Dir: G. Gonzales L. Dir. Tec: E. Marques. **Ann:** "Desde San Cristóbal, Venezuela, Patria del Libertador, transmite Ecos del Torbes, su Emisora Predilecta, Estaciones YVOC 4980kc onda corta 780kc onda larga y YVPG 9640kc banda internacional de 31 metros". **V.** by letter. Recordings accepted. **FM:** 102.5MHz.
50) Apt. 576, Barquisimeto. **Te:** 20800. **Cable:** Radiobar. **L.P:** Dir. Gen: R. A. Segúra. Dir. Tec: L. M. Pick. **D.Prgr: N:** 11.00, 16.30, 22.00, 03.30. **V.** by QSL-card. Recordings accepted.
50a) Apt. 374, San Cristóbal. **Te:** 14300. **V.** by letter.
51) Ca. Bolivar, Boconó. **Te:** 1485. **L.P:** Dir: A. Betancourt. **D.Prgr: N:** 16.00, 01.00. **Ann:** "Esta es R. Boconó, transmitiendo desde Boconó, Estado Trujillo, Venezuela, Patria del Libertador". **V.** by QSL-card or letter. Recordings accepted. **FM:** YVOW 93.7MHz.
52) P.O. Box 3979, Caracas. **Te:** 720661. **L.P:** Dir. Gen: Dr. A. Pizani P. Dir. Tec: L. Linares C. Dir. Eng. Prgrs: G. Artiles. **D.Prgr:** YVKZ: 12.00-04.00. (KA = Caracas, SL = San Cristóbal, KK = Valencia, KZ = Caracas, SM = Merida, SQ = San Fernando de Apure).
53) Apt. 866, Caracas. **Te:** 551573. **Cable:** Caled. **L.P:** Pres: C. W. White. Dir. Tec: J. Périco. Dir. Prgr: J. Francisco Rodriguez. **D.Prgr: N:** 10.00, 15.90, 21.30. **Ann:** "Transmite R. Continente, la primera en calidad, YVKL onda larga, YVKM onda corta, desde Caracas, Venezuela cuna del Libertador, país democrático de América". **V.** by letter. Re. in Sp, E. Recordings accepted.
54) Plaza Bolivar, Maturin. **Te:** 2015. **L.P:** Dir: R. Sifontes.
55) Apt. 1931, Caracas. **Te:** 421161. **L.P:** Dir: A. Jose I. **Ann:** "En el Año . . . .de nuestra independencia desde Caracas, Venezuela, Cuna de El Libertador transmite R. Cultura . . . . ". **V.** by QSL-card.
56) Ca. Ayacucho, Los Teques. **Te:** 2488. **L.P:** Dir: Dr. H. Arreaza.
57) Ca. Democracia, Cabimas. **V.** by letter.
Medium Waves:
58) **R. La Villa,** Villa de Cura, Aragua.
59) **R. Libertad,** Apt. 99, Cabimas. **L.P:** Dir: G. Baptista.

We draw your attention to the **Last Minute Information** giving important details received after the main section went to press.

60) **R. Cristal,** Apt 595, Barquisimeto.
61) **Ondas de los Médanos,** Ca. Bolivar, Coro.
62) **R. Cumaná,** Apt. 114, Cumaná.
63) **R. Mundo,** Av. 25, Maracaibo.
64) **R. 810,** Girardot y Montes de Oca, Valencia.
65) **R. Guyana,** Ca. Miranda 2, Upata.
66) **R. América,** Apt. 117, Valencia.
67) **R. Aeropuerto,** Apt. 3333, Maiquetia.
68) **R. Punto Fijo,** Apt. 26, Punto Fijo.
69) **R. Servicio,** Apt. 1440, Maracaibo.
70) **R. Mil,** Cra. Panamericana, Morón.
71) **R. Aragua,** Vargas Norte 21, Edif Tufano, 4to piso, Apartamento 16, Maracay. **L.P:** Dir: J. Labrador.
72) **R. Caripito,** Apt. 10167, Caripito.
73) **R. Calendario,** Apt. 789, Maracaibo.
74) **R. Valles del Tuy,** Occumare del Tuy.
75) **R. Guanare,** Ca. Sur 11, Guanare.
76) **R. Los Andes,** Apt. 47, Mérida.
77) **R. Caroni,** Ca. Ramirez 31, San Félix.
78) **R. Betijoque,** Ca. 15, Betijoque.
79) **R. Perijá,** Machiques.
80) **Ondas del Lago,** Apt. 261, Maracaibo.
81) **R. Zaraza,** Edif. Guarico, Zaraza.
82) **R. Amazonas,** Pto, Ayacucho.
83) **Ondas del Caribe,** Ca. Ecuador, Punto Fijo. **L.P:** Dir: A. J. Isturiz.
84) **Ecos del Orinoco,** Apt. 47, Ci. Bolivar.
85) **R. Industrial,** Guarenas.
86) **R. Turismo,** Av. Bolivar, Valera.
87) **R. Acarigua,** Av. 13 No. 111, Acarigua.
88) **R. San Sebastian,** P.O. Box 338, San Cristóbal. **L.P:** Dir: R. A. Carjaval M. **D.Prgr:** 24 h. **V.** by QSL-card. Rp. Recordings accepted.
89) **La Voz del Zulia,** Maracaibo.
90) **R. Barinas,** Av. Sucre El terminal, Barinas.
91) **Ondas del Escalante,** Distrito Colón, Sta. Barbara del Zulia.
92) **La Voz de Anaco,** Ca. Cagigal 39, Anaco.
93) **R. Barlovento,** Caucagua.
94) **La Voz de la Victoria,** Plaza Rivas, La Victoria.
95) **R. Puerto Ordaz,** Av. las Américas, Pto. Ordaz.
96) **R. Tucupita,** Av. El Cementario 32, Tucipia.
97) **La Voz de la Sierra,** Churuguara.
98) **R. Crono Radar,** Ca. Guauche 7, Petare.
99) **R. Reloj,** Apt. 347, Maracaibo.
100) **R. Tinaquillo,** Ca. Miranda 82, Tinaquillo.
101) **R. Colonial,** Av. L. Alvarado, El Tocuyo.
102) **R. San Carlos,** Ca. Páez 78, San Carlos.
103) **R. Lagunillas,** Ed. Terraza Zulia, Lagunillas.
104) **R. dif. La Pascua,** Ca. Retumbo, Valle de la Pascua.
105) **R. dif. Oriental,** Guiria.
106) **R. Turén,** Edif. Portuguese, Turén.
107) **R. Exito,** Bachaquero.
108) **R. Orituco,** Ca. Ilustres, Altagracia de Orituco.

SET COUNT BY COUNTRY

* = Country with comm. radio and/or comm. television.

Country	Po.	R. Rcvrs	TV Rcvrs
Afar and Issas	86.000	6.000	1.000
Afghanistan	15.909.000	75.000	—
Albania	1.915.000	150.000	2.000
Algeria	12.108.000	500.000	83.064
*Andorra	14.425	3.600	—
*Angola	5.160.000	90.000	—
*Argentina	22.700.000	6.000.000	1.950.000
Ascension Island	1.672	170	—
*Australia	12.000.000	2.557.628	2.429.810
Austria	7.323.000	2.087.500	1.072.886
*Azores	352.000	45.000	—
*Bahamas	150.000	50.000	—
Bahrain	193.000	53.000	—
*Barbados	251.000	56.500	12.000
Botswana	620.000	5.000	—
Belgium	9.850.000	3.189.660	1.800.625
*Bermuda	52.000	14.000	16.000
*Bolivia	4.140.000	400.000	—
*Brazil	85.000.000	5.550.000	5.510.000
Brunei	128.000	12.000	—
Bulgaria	8.364.000	2.240.889	190.000
Burma	26.385.000	370.292	—
Burundi	3.472.000	55.000	—
Cambodia	7.000.000	100.000	25.000
Cameroon	5.232.000	210.000	—
*Canada	20.700.000	14.100.000	7.271.000
*Canary Islands	1.250.000	130.000	—
*Cape Verde Islands	245.422	4.387	—
C. African Rep.	2.088.000	44.000	—
*Ceylon	11.550.000	430.000	—
Chad	4.000.000	50.000	—
*Chile	9.250.000	1.375.000	150.000
*Colombia	18.725.000	2.210.000	450.000
Comoro Islands	240.000	10.000	—
Congo (Brazzaville)	900.000	62.000	1.000
Congo (Dem. Rep.)	16.000.000	60.000	7.000
Cook Islands	20.600	2.500	—
*Costa Rica	1.490.000	105.000	75.000
Cuba	7.845.000	1.325.000	575.000
*Cyprus	621.502	148.000	30.000
Czechoslovakia	14.356.198	3.892.235	2.700.500
Dahomey	2.440.000	50.000	—
Denmark	4.838.000	1.455.000	1.204.000
*Dominican Rep.	3.780.000	155.000	85.000
*Ecuador	5.326.000	205.000	66.000
*El Salvador	3.040.000	397.500	50.000
Ethiopia	23.500.000	150.000	6.000
Faroe Islands	38.000	10.000	—
*Fiji	500.000	40.000	—
Finland	4.691.327	1.696.982	939.277
France	50.000.000	6.576.734	8.879.316
Gabon	630.000	50.000	1.200
Gambia	336.000	33.000	—
*Germany (Fed. Rep.)	60.024.300	18.797.182	18.725.000
Germany (Dem. Rep.)	17.067.000	5.785.000	4.100.000
Ghana	8.500.000	700.000	10.000
*Gibraltar	25.100	4.100	5.700
Gilbert and Ellice Isl.	55.000	2.500	—
*Great Britain	55.202.000	17.708.348	15.152.566
Greece	8.625.000	1.135.000	60.000
Greenland	40.500	6.900	—
Guadeloupe	335.000	18.000	9.800
*Guam	120.000	85.000	37.000
*Guatemala	4.580.000	215.000	71.000
*Guyana	700.000	140.000	—
Guiana, French	40.000	4.000	2.500
Guinea, Rep.	3.670.000	85.000	—
Guinea, Portuguese	550.500	3.500	—
Guinea, Equatorial	270.000	70.000	—
Haiti	4.490.000	80.000	10.000
Hawaii	839.783	1.500.000	175.000
Holland	12.737.000	3.173.800	2.675.339
Honduras, Br.	115.000	33.045	—
*Honduras Rep.	2.365.000	140.000	21.000
*Hong Kong	3.877.700	715.000	110.000
Hungary	10.180.000	2.501.255	1.160.000
Iceland	199.600	61.480	23.957
India	495.000.000	6.490.000	6.500
Indonesia	111.000.000	2.500.000	70.265
*Iran	26.000.000	1.710.000	150.000
Iraq	8.265.000	184.000	175.000
Ireland	2.910.000	584.038	382.589
Israel	2.812.500	650.000	45.000
Italy	53.747.508	11.686.385	7.700.000
Ivory Coast	3.900.000	67.000	6.500
*Jamaica	1.894.000	425.000	50.012
*Japan	101.200.000	22.500.000	20.610.000
Jordan	2.020.000	135.000	15.000
Kenya	9.650.000	500.000	14.500
*Korea Rep.	29.205.000	1.450.000	100.000
Korea (P.D.)	13.000.000	—	—
Kuwait	468.500	101.500	80.000
Laos	3.005.500	45.000	—
*Lebanon	2.541.000	550.000	175.000
*Leeward Islands	175.000	5.500	3.500
Lesotho	875.000	2.675	—
*Liberia	1.250.000	151.000	4.000
Libya	1.681.000	76.000	—
Luxembourg	335.000	135.763	47.992
*Macau	290.000	8.000	—
Madeira	303.000	36.500	—
Malagasy Rep.	6.340.000	308.000	—
Malawi	4.045.000	100.000	—
Malaysia	9.675.000	426.000	100.000
Mali	4.600.000	50.000	—
*Malta	322.173	66.028	37.779
Maldive Islands	102.000	1.500	—
Martinique	327.000	28.802	5.438
Mauritania	1.100.000	45.000	—
*Mauritius	776.000	70.000	11.000
*Mexico	44.400.000	4.825.000	2.200.000
*Monaco	22.600	6.575	15.000
Mongolia (P.R.)	1.105.000	90.923	—
Morocco	14.000.000	826.312	85.656
*Mozambique	6.965.000	85.000	—
Nepal	10.300.000	50.000	—
*Neth. Antilles	210.000	110.000	29.000
New Caledonia	88.000	16.000	5.000
New Hebrides	72.000	3.000	—
New Zealand	2.755.092	657.000	586.666
*Nicaragua	1.700.000	105.000	35.000
Niger	3.475.000	75.000	—
*Nigeria	57.500.000	1.260.000	53.000
Norfolk Island	1.500	500	—
Norway	3.760.000	1.130.000	650.000
Pakistan	110.000.000	1.150.049	40.000
*Panama	1.351.400	225.000	100.336
Papua & New Guinea	2.183.036	62.415	—
Paraguay	2.095.000	164.000	13.000
P.R. of China	776.000.000	—	—
*Peru	12.016.000	1.815.000	310.000
*Philippines	33.500.000	1.230.000	350.000
Poland	32.206.500	5.571.076	3.000.000
*Portugal	9.234.400	1.348.339	280.280
*Puerto Rico	2.700.000	1.600.000	400.000
Reunion	420.000	70.000	13.000
Rhodesia	4.580.000	134.667	46.000
Rumania	19.250.000	2.900.000	580.000
Rwanda	3.144.723	15.000	—
*Ryukyu Islands	950.000	245.000	160.000
Sabah (Malaysia)	575.000	40.000	—
*Samoa (American)	27.500	1.000	1.500
*Samoa (Western)	143.000	17.000	—
São Tome	65.000	6.000	—
Sarawak (Malaysia)	902.841	65.000	—
Saudi Arabia	8.025.000	78.000	50.000
Senegal	3.505.000	265.000	500
Seychelles	47.730	10.000	—
Sierra Leone	2.405.000	30.000	3.000
Singapore	1.955.600	188.146	108.040
Solomon Islands	143.000	5.075	—
Somalia	2.525.000	40.000	—
*So. Africa	18.300.000	1.457.739	—
*Southern Yemen	1.500.000	1.250.000	20.000
*Spain	32.800.000	5.000.000	3.345.000
St. Helena	4.707	550	—
St. Pierre et Miquelon	5.500	1.600	1.000
Sudan	13.950.000	18.000	20.000
*Surinam	351.000	88.000	200
Swaziland	392.000	12.000	—
Sweden	7.893.704	2.934.475	2.325.834
Switzerland	6.000.000	1.739.917	961.521
Syria	5.400.000	280.000	75.000
Tahiti	98.500	40.500	4.000
*Taiwan	13.515.000	1.400.000	240.000
Tanzania	12.250.000	135.000	—
*Thailand	30.561.000	2.766.000	220.000
Timor	540.000	2.300	—
*Trinidad and Tobago	1.000.000	169.000	41.000
Togo	1.746.000	35.000	—
Tonga	77.585	6.050	—
Trust Territory (Pacific)	93.000	6.000	—
Tunisia	4.692.000	385.000	37.000
Turk & Caicos Islands	6.650	1.200	—
Turkey	32.915.000	2.912.662	10.000
*Uganda	7.750.000	175.000	9.000
United Arab Rep. (Egypt)	31.250.000	4.275.000	500.000
United States	201.166.000	274.550.000	58.000.000
Upper Volta	5.000.000	80.000	5.000
*Uruguay	2.855.000	1.075.000	215.000
USSR	237.000.000	86.500.000	19.000.000
Vatican State	1.000	—	—
*Venezuela	9.195.000	1.680.000	652.400
Vietnam Rep.	16.000.000	400.000	—
Vietnam (Dem. Rep.)	19.000.000	500.000	—
*Virgin Islands (American)	60.000	32.000	15.000
*Virgin Islands (British)	6.500	5.000	—
*Windward Islands	372.000	60.000	—
Yugoslavia	20.186.000	3.137.304	1.199.376
Zambia	3.840.000	51.000	17.500

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00.00 AFRTS
BBC
Japan
Moscow
Norway[5]
Peking
VOA
00.15 R. Australia
00.16 RSA
00.20 R. Nederland[8]
00.30 AFRTS
Albania
Budapest
Kiev[20]
RSA
Sweden
00.35 Japan
Bonaire
Pakistan
R. New Zealand
01.00 AFRTS
AIR
CBC
Cuba
Japan
Moscow
Peking
Prague
RBI
Rome
RNE
VOA
01.16 RSA
01.30 AFRTS
Albania
R. Australia
Bucharest
FEBC
Moscow
R. Nederland[8]
RSA
01.32 SBC
DW
02.00 AFRTS
BBC
Cairo
CBC[8]
HCJB[4]
Japan
Lisbon
Moscow
Norway[5]
Peking
Pyongyang
RNE
Sweden
VOA
02.03 BCC
02.16 RSA
02.30 AFRTS
Albania
R. Australia
BBC
Lebanon
RBI
RSA
02.50 Japan
02.55 FEBC[1]
BCC
03.00 AFRTS
BBC
Bucharest
Budapest
Japan
Lisbon
Moscow
Peking
RNE
Seoul
VOA
03.02 Argentine
DW
03.16 RSA
03.20 BCC
03.30 AFRTS
Albania
Bonaire
CBC[1]
Cuba
Moscow
Prague
RBI
Sweden
03.45 R. Australia
Lisbon
RBI
03.50 Rome
04.00 AFRTS
R. Australia
BBC
CBC
ETLF
FEBC
Japan
Moscow
Norway[5]
Peking
Sofia
VOA
04.15 RSA[8]
04.25 R. Thailand
Rome
04.30 AFRTS
Albania
Bucharest
Budapest
Kiev[20]
Moscow
RSA[8]
04.32 DW
04.40 Pakistan
04.45 R. Australia
KGEI[2]
Moscow
04.47 DW
SBC
05.00 AFRTS
R. Australia
BBC
CBC
HCJB[18]
Japan
Moscow
Peking
RSA[8]
Seoul
VOA
05.15 BBC
Brazzaville
RSA[8]
Sweden
05.30 AFRTS
ETLF
05.45 UN[6]
05.47 DW
06.00 AFRTS
R. Australia
BBC
CBC
ELWA
FEBC[1]
Japan
Moscow
Nigeria
Seoul
VOA
06.02 Argentine
DW
06.15 RBI
Brazzaville
06.30 AFRTS
Albania
BBC
Cuba
Malaysia
Moscow
UN[6]
06.45 Bucharest
RBI
RSA[8]
07.00 AFRTS
Albania
R. Australia
BBC
CBC
ELWA
Japan
Moscow
Nigeria
Prague
Warsaw
VOA
07.02 SBC
07.07 UN[6]
07.10 R. Athens[8]
07.15 R. Australia
CBC
07.30 AFRTS
BBC
CBC
Lisbon
R. Nederland[8]
New Zealand
07.45 UN[6]
08.00 AFRTS
Budapest[14]
Japan
Norway[1]
Pyongyang
Seoul
08.15 Lisbon
08.30 AFRTS
CBC
Malaysia
Pakistan
Peking
08.47 DW
SBC
09.00 AFRTS
R. Australia
New Zealand
BBC
FEBC
Japan
Pakistan
VOA
09.02 RRI
09.30 AFRTS
Albania
Peking
Japan
10.00 AFRTS
AIR
R. Australia
Hanoi
RSA
Japan
Moscow
New Zealand
VOA
10.02 SBC
10.15 Budapest[9]
10.20 Japan
10.30 AFRTS
Seoul
R. Thailand
10.45 Japan
10.46 RSA
10.47 DW
11.00 AFRTS
Albania
R. Australia
BBC
Brazzaville
FEBC
Japan
Moscow
Pyongyang
Sweden
Warsaw
VOA
11.15 R. Athens
RBI
RRI
Pakistan
RSA
11.30 AFRTS
FEBC
Moscow
Japan
Jordan
11.32 SBC
11.45 Ceylon
12.00 AFRTS
R. Australia
Prague
Japan
Moscow
Norway[1]
Peking
RBI
RSA
Tashkent
VOA
12.02 DW
12.05 Bonaire
12.15 RBI
12.17 CBC
Mongolia
12.30 AFRTS
Moscow
12.30 R. Australia
Sweden
12.46 RSA
12.50 FEBC[8]
13.00 AFRTS
R. Australia
BBC
Brazzaville
Bucharest
Hanoi
Japan
Peking
Paris
Warsaw
VOA
13.15 Cairo
RBI
13.17 SBC
13.30 AFRTS
AIR
ETLF
Moscow
RBI
13.35 Pakistan
14.00 Afghanistan
Albania
AFRTS
R. Australia
BBC[2]
Ghana
Japan
Norway[1]
Peking
Prague[1]
Pyongyang
RSA
Sweden
Tashkent
VOA
14.10 R. Athens[8]
14.15 Ankara
14.30 AFRTS
RBI
R. Nederland[8]
Lisbon
Seoul
14.45 RRI
14.55 AIR
15.00 AFRTS
R. Australia
Bucharest
Ghana
Japan
Jordan
Moscow
Peking
Vatican R.
VOA
15.02 SBC
15.15 RBI
15.16 CBC
15.30 AFRTS
Albania
Belgrade
FEBC
Hanoi
Moscow
Nigeria
Prague
15.52 DW
16.00 AFRTS
R. Australia
R. New York[8]
BBC
ELWA
Ghana
Japan
Jordan
Moscow
Norway[1]
Peking
RSA
Sweden
VOA
16.10 ELWA
16.30 AFRTS
Albania
Japan
Nigeria
Prague
R. New York[4]
16.32 CBC
16.45 Ghana
RBI
16.46 RSA
16.47 DW
17.00 AFRTS
R. Australia
BBC
ETLF
Japan
Peking
R. New York[8]
RSA
VOA
17.01 WINB[4]
17.27 BBC
17.30 AFRTS
Albania
Cairo
Japan
Prague
RBI
R. New York
17.35 R. Athens
17.46 RSA
17.47 DW
18.00 Afghanistan
AFRTS
AIR
R. Australia
BBC
ETLF
Ghana
Japan
Moscow
Norway[1]
R. New York
RSA
Tanzania
UN[4]
VOA
18.03 BCC
18.15 Ghana
Lisbon
18.17 SBC
18.25 UN[4]
18.30 Abidjan
AFRTS
Albania
BCC
Belgrade
Lebanon
Moscow
Nigeria
R. New York
UN[4]
Warsaw
18.33 CBC
18.35 R. Athens
18.46 RSA
19.00 AFRTS
AIR
R. Australia
Japan
Moscow
R. Nederland[8]
Pakistan
Prague
Pyongyang
R. New York
RSA
Sweden
Warsaw
VOA
19.02 DW
19.05 Sofia
10.15 Brazzaville
Paris
RRI
19.25 Nigeria
19.30 AFRTS
Albania
Baghdad
Bucharest
ETLF
Kiev[19]
Moscow
Peking
R. Lubumbashi
R. New York
Sofia
Warsaw
19.32 SBC
19.35 Rome
19.45 R. Athens
19.46 RSA
20.00 AFRTS
AIR
Belgrade
R. Australia
BBC
Ghana
Iran
Japan
Moscow
Pakistan
RBI
R. Nederland[8]
R. New York[8]
Norway[1]
VOA
20.03 WINB[8]
20.10 Cuba
20.15 Cairo
RBI
Israel
20.20 Conakry
20.25 Rome
20.27 BBC
20.30 AFRTS
Albania
Japan
Moscow
Peking
R. New York[8]
Syria
Warsaw
20.45 Ghana
Lisbon
Sweden
20.50 Cuba
21.00 AFRTS
AIR
R. Australia
BBC
CBC[1,2]
Ghana
Japan
Moscow
R. Nederland[8]
Nigeria
R. New York
RSA
Seoul
Warsaw
VOA
21.05 Sofia
21.12 DW
21.15 Israel
21.30 AFRTS
Budapest
CBC[4]
Moscow
Peking
R. Nederland[8]
R. New York[2]
Sofia
21.45 Cairo
R. Australia
21.46 RSA
21.47 DW
21.55 Nigeria
22.00 AFRTS
AIR
Albania
Ankara
BBC
Ghana
Japan
Mongolia
Moscow
Norway[1]
RBI
R. New York
Rome
Warsaw
VOA
22.02 R. Athens
22.30 AFRTS
BBC
Bucharest
Moscow
R. New York
Vilnius[21]
22.45 R. Australia
Sweden
23.00 AFRTS
AIR
R. Australia
BBC

DX-CLUBS OF THE WORLD

AUSTRALIA: Australian Radio DX Club, P.O. Box 227, Box Hill, Victoria 3127 (Publ: "Australian DX News") — **Branches** in Victoria, N.S.W., So. Australia & Tasmania — **Radio Australia Listeners Club,** Box 428G, GPO, Melbourne.

AUSTRIA: Radio Japan Club-Wien, Heiligenstädter-Strasse 11/5/13, A-1190, Vienna (Publ: "R.J.C. Japan Journal" in German) — **Vienna News Agency,** c/o K. H. Lindenthal, Vienna XIV, Hütteldorferstr. 173 (Publ: "The News").

BENELUX: Benelux DX-Club, P.O. Box 7294, Amsterdam, Holland. (Publ: "Beneleux DX-Club" in Dutch and English).

CANADA: R. Canada Shortwave Club, c/o CBC, International Sce, P.O. Box 6000, Montreal (monthly bulletin free to all members) — **Canadian DX-Club:** see USA — **Intercontinental DX-Club** 94 Pegasus Trail, Scarborough, Ontario. (Publ: "HI", bi-monthly) — **Canadian International DX Radio Club,** 44 Carmen Ave, Winnipeg, Man. (Publ: "CIDX Messenger") — **World Space Tape Exchange Club,** 3225 Longfellow Ave, Windsor, Ont. (Publ: "Wings & Space").

CEYLON: Ceylonese Shortwave Listeners' Club, Galle Walauwa, Kolamunne, Piliyandala (Publ: "DX-Panorama").

DENMARK: The Danish Short Wave Club International, Tavleager 31, 2670 Greve Strand. (Publ: "Shortwave News" in English and "Kortbølge Nyt" in Danish) — **The Cimbrer DX-Club,** Box 27, 9600 Aars. (Publ: "The Cimbrer DX-News" in English and Danish.)

FINLAND: Finlands Svenska DX-Förbund, Kungsgaten 11, Ekenäs. (Publ: "Frekvensnytt" distributed to all affiliated clubs).
Esbo-DX Klubb, Morby, Esbo — **Finlands DX-Club** r.f, Box 10214, Helsinki 10. (Publ: "Attention" in Swedish) — **Finlands DX-Club International,** Box 10214, Helsinki 10 (Publ: "Attention A" in Swedish, "Attention B" in English) — **Jakobstads DX-Club r.f,** Storgaten 11, Jakobstad — **Nykarleby Radio Club r.f,** Nykarleby — **Petalax DX-Club,** c/o S. Björkas, Petalax — **Suomen DX-Kuuntelijat r.y,** P.O. Box 10454, Helsinki 10. (Publ: "DX-Kuuntelija") — **Nylands DX-Club r.f,** Kungsgaten 11, Ekenäs — **Uudenmaan Radiokerho r.y,** Hämeenkylä (Publ: "Urkkija").

FRANCE: France DX-TV Club (Amateur Club for long distance TV reception), 30 rue Jean Moulin, 33 Villenave d'Ornon (Gironde) (Publ: "Television DX") — **Club Français des Ondes Courtes,** 18 Ave. de la Grande Ceinture, 94 Saint Maur (Publ: "France DX").

GERMANY: Assoziation Deutschsprachiger DX-er und DX-Clubs, 464 Wattenscheid, Im Steinhof 12. (Publ: "Mitteilungsblatt" fortnightly) — **Assoziation junger DX-er der** Bergstrasse, 6104 Jugenheim, Weinbergstr. 35 — **Radio Canada Shortwave Club,** 305 Wunstorf/Hann, Sudetenstr. 34 — **Radio Japan Club** (Publ: "RJC-Mitteilungen"). Branches as follows: Baden-Württemberg: 7477 Onstmettingen, Rechbergstr. 29; Berlin: 1000 Berlin 47, Britzer Damm 151; Brilon: 5790 Brilon, Alexanderstr. 25; Frankfurt: 6000 Frankfurt 50, An den Drei Brunnen 5; Hamburg: 2050 Hamburg 80, Max Eichholz Ring 18; München: 8000 München 81, Denningerstr. 202; Westfalen: 4780 Lippstadt, Esbeckerstr. 138 — **World Wide DX-Club,** Ferdinandsplatz 11, 6380 Bad Homburg (Publ: "DX-Magazine" in English, monthly).

HUNGARY: Radio Budapest Shortwave Club, c/o Brody Sandor s.u. 5-7, Budapest VIII. (Publ: RBSWC DX-Bulletin)

INDIA: Deutsche Welle DX-Club, L/108/B. Adabari RLY Colony, Gauhati 12 (Assam).

HOLLAND: Radio Communications DX-Club, (founded in Sweden in 1961), Enschedesestraat 26, Haaksbergen 7840. (Publ: "From Point-to-Point" entirely in English, bimonthly) — Real PTP-DX only.

JAPAN: Japanese Short Wave Club, P.O. Box 29, Sendai (Publ: "SW-DX Guide") — **Chunichi Radio Listener's Club,** C.P.O. Box 347, Nagoya (Publ: "CRL Dayori") — **Radio Nederland and Deutsche Welle Listeners' Club,** P.O. Box 16, Itami, Hyogoken.

MALTA: National Radio Club, 138 St. Anthony Street, Balzan (Publ: "Sigma" monthly)

NEW ZEALAND: DX Radio Association, 78 District Rd. Green Island, Dunedin (Publ: "Tune in") — **New Zealand Radio DX League,** P.O. Box 1356, Christchurch (Publ: "New Zealand DX-Times") Adm. addr: P.O. Box 5165, Dunedin.

NORWAY: DX-Listeners' Club, P.O. Box 1284 Vika, Oslo 1. (Publ: DX News and Internat. Bulletin). Local branches in Oslo, Halden, Drammen, Trondheim (offers L.A, Europe, Africa, East and Pacific Diplomas).

PAKISTAN: Pakistan DX-Club, 290 Muslim Town, P.O. Jchhra, Lahore.

PORTUGAL: Radio Portugal DX-Club, Rua do Quelhas 21, Lisbon (Publ: Newsheets).

SOUTH AFRICA: South African DX-Club, 6A St. Augustine's Rd, West End, Kimberley (Publ: DX News).

SWEDEN: 1) Affiliated with DX-Alliansen — 2) Member of Sveriges DX-Förbund.
DX-Alliansen, Box 3108, Stockholm 3. National Union of Swedish DX Clubs (Publ: "Allians Nytt" in Swedish and English, news sheet "Allians News").
Dala Husby — 2) **DX-Club Örnen,** L. Andersson, Svalgaten 3, Sollentuna — 1)2) **DX-klubben Electron,** Västeräsvägen 38B, S-63223 Eskilstuna — 1)2) **DX-Klubben KMB,** Box 423, Åstorp 2 (Publ: KMB News) — 2) **DX klubben Trio,** c/o Forsblad, Backebo, Längjum — 1) **Frövi Radioklubb,** Box 448 Frövi 71040. (Publ: Hjälp for DX-are) — **Göteborgs DX-klubb,** Nordostpassagen 63, 41311 Göteborg (Publ: DX-Junior); **Gothenburg DX-Club International,** Nordostpassagen 63, 41311 Göteborg (Publ: GDX-aren) — **Halmstads Kortvågsklubb,** Fack 15, Halmstad — 1)2) **Husums Radioklubb,** Box 199 Husum — 1)2) **IOGT DX-Club,** Vasagatan 9, Stockholm C (Publ: DX-Bladet) — 1)2) **Kalix Radioklubb,** Box 79, 95200, Kalix — 1)2) **Kiruna Kortvågsklubb,** Box 208, 98101 Kiruna C (Publ: Pejlen) — 2) **Kortvågsklubben Orren,** Box 884, 88101 Sollefteå 1. — 1)2) **Luleå Radioklubb,** Box 80037, 95108 Luleå 8 — 1)2) **Malmö Kortvågsklubb,** Fack 7026, S20042 Malmö — **Mälardalens Radiosällskap** Näsbyalle 12, S-18350 Täby (Publ: QRG-Bulletinen) — 1) **Oskarshamns Radioklubb,** Gunnarsövägen 4, Oskarshamn — 1)2) **Radioklubben Micro,** Helmfeltsgatan 11, 25240 Hälsingborg. (Publ: RCM-Bulletinen) — 1) **Radioklubb Universal,** Box 2053, Huddinge 2 — 2) **Radix DX-Club,** Parkgaten 29, Kungshamn — **Ronneby DX-Club,** Borggatan 13, Ronneby. (Publ: Bullen) — 1)2) **Rägsveds DX-Klubb,** c/o Malmstedt, Esingetorget 46, 11266 Stockholm — 2) **Skellefteå DX-Club,** Box 3452, Kage — 1)2) **Sundets DX-Club,** Bästemansgatan 12B, 26161 Landskrona — 1)2) **Svalans DX-Club,** Bankogårdsgatan 47, 25260 Hälsingborg — 1) **Sveriges Kortvågsförening,** Box 2311, Göteborg 2 — 1) **Sveriges Radioklubb,** Box 5083, 10242 Stockholm 5. (Publ: DX-Radio) — 1) **Teknik för Allas Eterklubb,** Box 3137, Stockholm 3 (Publ: Column in technical magazine "Teknik för Alla") — 1) **The DX-Companions,** 61012 Hellestad. (Publ: Rymdgnistan/Vox Aktuellt) — 1) **Uddevalla DX-Club,** Hagarnevägen 45/100 S-45100 Uddevalla (Publ: Bohus-DX) — 1)2) **Umeå Kortvågsklubb,** Box 117, S90101 Umeå 1 — 1) **Wermlands Radio Union,** Box 25, 69101 Karlskoga (Publ: WRU — Information) — 1) **Vox Kortvågsklubb,** Box 12062, 60012 Norrköping 12 (Publ: Vox/Aktuellt) — **Radio Teknikum,** Gamla Norrvägen 6-8, 35243 Växjö.

SWITZERLAND: Schweizer DX-Club, Schürenstr. 3, 8903 Birmensdorf — **Swiss SW Club,** Schafhauserstr. 102, 8057 Zürich (Publ: Swiss SW News in German)

UNITED KINGDOM: International Shortwave Club, 100 Adams Gardens Estate, London, S.E.16. (Publ: International Shortwave Radio) — **International Short Wave League,** 60 White Street, Derby, England (Publ: "Monitor") — **Trans National DX-League,** 99 East Claremont St. Edinburgh 4 (Publ: DX-Diary) — **Welsh Radio Club,** 61 Ebenezer Drive, Rogerstone, Mön. (Publ: Radio Review) — **World DX-Club,** 16 Ena Avenue, Neath, Glamorgan, Wales. (Publ: "Contact").

U.S.A: North American Shortwave Association, P.O. Box 989, Altoona, Pa. 16603, the only all-SWBC club in North America, publishing "Frendx" the SWBC Journal monthly — **Association of North American Radio Clubs** Rt. 1, Maple Road, Lake Geneva, Wis. 53147. (Publ: News-letters) — **American SWL's Club,** 16182 Ballad Lane, Huntington Beach, Calif. 92647. (Publ: "SWL monthly) — **Canadian DX-Club,** 4 Fox Ridge Lane, Avon, Conn. 06001 — **Fircrest DX-Club,** 1021 Alameda Ave, Fircrest, Wash. 98466 — **International Radio Club of America,** P.O. Box 605, Beaverton, Oregon 97005. (Publ: "DX-Monitor") — **National Radio Club,** P.O. Box 99, Cambridge, Mass. 02138 (Publ: "DX-News", published 34 times a year — mw only) — **Newark News Radio Club,** 215 Market Street, Newark Street, Newark N.J. 07101 (Publ: "NNRC Bulletin") — **North East Shortwave Listeners Club,** 971 Iris Street, Manchester, N.H.03102 — **New York State DXers Association,** 14 Orchard Ave. Albany, N.Y.12203 — **Radio New York Worldwide Listeners Club,** Radio New York Worldwide, New York, N.Y. 10022. (Publ: The Bulletin, monthly), all mail to Irwin Belofsky, Pres. Listeners Club — **R. Passaic International DX-Club,** 15 Carlton Place, N.J. 07055 (Publ: monthly bulletin) — **Williamsville Communications Society,** Williamsville, N.Y. 14221 (Publ: Bandwatch) — **Worldwide TV-FM DX Association,** P.O. Box 5001, Harbor Station, Milwaukee Wis. 53204. (Publ: "VHF-UHF Digest" providing exclusive coverage of TV-FM) — **Wasatch DX-Club,** 485 Mountain View Drive, Brigham City, Utah 84302 (Publ: WDXC News)

News in English

23.00 Hanoi
Japan
Moscow

23.00 R. New York
VOA
23.01 CBC

23.02 Argentine
R. Athens[5]
23.30 AFRTS

23.30 R. Australia
Budapest
FEBC

23.30 R. New York[8]
RSA
23.32 HCJB[6]

23.32 RRI
23.45 Japan

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IN THE TELEVISION BROADCAST INDUSTRY OFFERS A COMPLETE LINE OF SOLID STATE INSTRUMENTATION FOR VIDEO ANALYSIS, SIMULATION & CONTROL.

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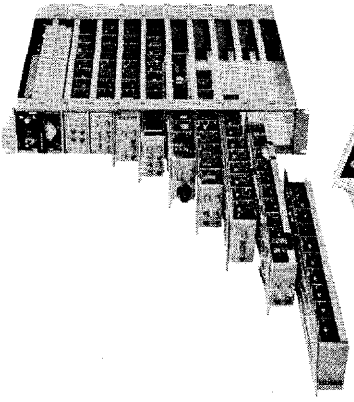

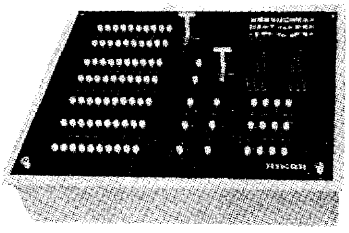

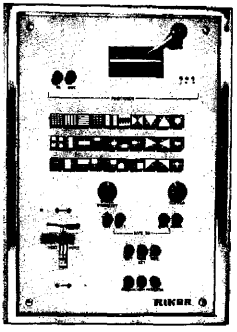

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WORLD TELEVISION

CHARACTERISTICS OF TELEVISION SYSTEMS

(As indicated in C.C.I.R. Report 308, Xth Plenary Assembly, Geneva, 1963)

System	Number of lines	Channel width MHz	Vision bandwidth MHz	Vision/sound separation MHz	Vestigial side-band MHz	Vision modulation	Sound modulation
A	405	5	3	−3.5	0.75	Pos	AM
B	625	7	5	+5.5	0.75	Nég	FM
C	625	7	5	+5.5	0.75	Pos	AM
D	625	8	6	+6.5	0.75	Nég	FM
E	819	14	10	±11.15	2	Pos	AM
F	819	7	5	+5.5	0.75	Pos	AM
G	625	8	5	+5.5	0.75	Nég	FM
H	625	8	5	+5.5	1.25	Nég	FM
I	625	8	5.5	+6	1.25	Nég	FM
K	625	8	6	+6.5	0.75	Nég	FM
K'	625	4	6	+6.5	1.25	Nég	FM
L	625	8	6	+6.5	1.25	Pos	AM
M	525	6	4.2	+4.5	0.75	Nég	FM
N	625	6	4.2	+4.5	0.75	Nég	FM

Note: For all stations the field repetition frequency is 50 per second.

United States of America: System M 525 lines & System N 625 lines.

ch	MHz	ch	MHz	ch	MHz
A-2	55.25/ 59.75	A-6	83.25/ 87.75	A-10	193.25/197.75
A-3	61.25/ 65.75	A-7	175.25/179.75	A-11	199.25/203.75
A-4	67.25/ 71.75	A-8	181.25/185.75	A-12	205.25/209.75
A-5	77.25/ 81.75	A-9	187.25/191.75	A-13	211.25/215.75

United Kingdom (UK): System A 405 lines.

ch	MHz	ch	MHz	ch	MHz
B-1	45.00/ 41.50	B-6	179.75/176.25	B-11	204.75/201.25
B-2	51.75/ 48.25	B-7	184.75/181.25	B-12	209.75/206.25
B-3	56.75/ 53.25	B-8	189.75/186.25	B-13	214.75/211.25
B-4	61.75/ 58.25	B-9	194.75/191.25	B-14	219.75/216.25
B-5	66.75/ 63.25	B-10	199.75/196.25		

Ireland: System I 625 lines & System A 405 lines.

ch	MHz	ch	MHz	ch	MHz
IA	45.75/ 51.75	ID	175.25/181.25	IG	199.25/205.25
IB	53.75/ 59.75	IE	183.25/189.25	IH	207.25/213.25
IC	61.75/ 67.75	IF	191.25/197.25	II	215.25/221.25

Continental Europe (excl. France, Monaco, Italy and OIRT members): System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
E-2	48.25/ 53.75	E-5	175.25/180.75	E-9	203.25/208.75
E-2A	49.75/ 55.25	E-6	182.25/187.75	E-10	210.25/215.75
E-3	55.25/ 60.75	E-7	189.25/194.75	E-11	217.25/222.75
E-4	62.25/ 67.75	E-8	196.25/201.75	E-12	224.25/229.75

France, Monaco: System E 819 lines.

ch	MHz	ch	MHz	ch	MHz
F-2	52.40/ 41.25	F-7	177.15/188.30	F-10	199.70/188.55
F-4	65.55/ 54.40	F-8A	185.25/174.10	F-11	203.45/214.60
F-5	164.00/175.15	F-8	186.55/175.40	F-12	212.85/201.70
F-6	173.40/162.25	F-9	190.30/201.45		

French Overseas Territories: System K'625 lines.

ch	MHz	ch	MHz	ch	MHz
K'4	175.25/181.75	K'6	191.25/197.75	K'8	207.25/213.75
K'5	183.25/189.75	K'7	199.25/197.75	K'9	215.25/221.75

Italy: System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
A	53.75/ 59.25	D	175.25/180.75	G	201.25/206.75
B	62.25/ 67.75	E	183.75/189.25	H	210.25/215.75
C	82.25/ 87.75	F	192.25/197.75	H1	217.25/222.75

USSR and OIRT members (R) (exc. German Democratic Republic): System D 625 lines.

ch	MHz	ch	MHz	ch	MHz
R1	49.75/ 56.25	R5	93.25/ 99.75	R9	199.25/205.75
R2	59.25/ 65.75	R6	175.25/181.75	R10	207.25/213.75
R3	77.25/ 83.75	R7	183.25/189.75	R11	215.25/221.75
R4	85.25/ 91.75	R8	191.25/197.75	R12	223.25/229.75

Morocco: System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
M4	163.25/168.75	M7	187.25/192.75	M9-	203.25/208.75
M5	171.25/176.75	M8	195.25/200.75	M10	211.25/216.75
M6	179.25/184.75				

Australia: System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
0	46.25/ 51.75	5	102.25/107.75	8	189.25/194.75
1	57.25/ 62.75	5A	138.25/143.75	9	196.25/201.75
2	64.25/ 69.75	6	175.25/180.75	10	209.25/214.75
3	86.25/ 91.75	7	182.25/187.75	11	216.25/221.75
4	95.25/100.75				

New Zealand (NZ): System B 625 lines.

ch	MHz	ch	MHz	ch	MHz
1	45.25/ 50.75	4	175.25/180.75	7	196.25/201.75
2	55.25/ 60.75	5	182.25/187.75	8	203.25/208.75
3	62.25/ 67.75	6	189.25/194.75	9	210.25/215.75

Japan: System M 525 lines.

ch	MHz	ch	MHz	ch	MHz
J-1	91.25/ 95.75	J-5	177.25/181.75	J-9	199.25/203.75
J-2	97.25/101.75	J-6	183.25/187.75	J-10	205.25/209.75
J-3	103.25/107.75	J-7	189.25/193.75	J-11	211.25/215.75
J-4	171.25/175.75	J-8	193.25/197.75	J-12	217.25/221.75

Television on VHF/UHF (Band IV/V) Europe and Africa.
VHF/UHF television systems for Band IV/V adopted by the European Broadcasting Conference Stockholm 1961 and by the African Broadcasting Conference, Geneva 1963 are 625-lines systems only. These can be grouped into 5 categories, here called Standards G to L:

Standard	Video Band-width (MHz)	Picture/Sound Separation (MHz)	Vestigial Sideband (MHz)	Picture modulation	Sound modulation	Frequency of chrominance subcarrier (MHz)	Power ratio picture/sound
G	5	5.5	0.75	Neg	FM	4.43	5:1
H	5	5.5	1.25	Neg	FM	4.43	5:1
I	5.5	6	1.25	Neg	FM	4.43	5:1
K	6	6.5	0.75	Neg	FM	4.43	5:1
L	6	6.5	1.25	Pos	AM	4.43	8:1

ch	Vision Mc	ch	Vision Mc	ch	Vision Mc	ch	Vision Mc
21	471.25	33	567.25	45	663.25	57	759.25
22	479.25	34	575.25	46	671.25	58	767.25
23	487.25	35	583.25	47	679.25	59	775.25
24	495.25	36	591.25	48	687.25	60	783.25
25	503.25	37	599.25	49	695.25	61	791.25
26	511.25	38	607.25	50	703.25	62	799.25
27	519.25	39	615.25	51	711.25	63	807.25
28	527.25	40	623.25	52	719.25	64	815.25
29	535.25	41	631.25	53	727.25	65	823.25
30	543.25	42	639.25	54	735.25	66	831.25
31	551.25	43	647.25	55	743.25	67	839.25
32	559.25	44	655.25	56	751.25	68	847.25

The sound carrier frequency for each channel can be determined by adding the appropriate figure to the vision carrier frequency given above (5.5Mc for systems G, H; 6Mc for system I and 6.5Mc for systems K, L). In We. Germany ch38 is reserved for aero-navigation.

UHF Channels: USA.

ch	MHz	ch	MHz	ch	MHz
A-14	471.25/475.75	A-38	615.25/619.75	A-62	759.25/763.75
A-15	477.25/481.75	A-39	621.25/625.75	A-63	765.25/769.75
A-16	483.25/487.75	A-40	627.25/631.75	A-64	771.25/775.75
A-17	489.25/493.75	A-41	633.25/637.75	A-65	777.25/781.75
A-18	495.25/499.75	A-42	639.25/643.75	A-66	783.25/787.75
A-19	501.25/505.75	A-43	645.25/649.75	A-67	789.25/793.75
A-20	507.25/511.75	A-44	651.25/655.75	A-68	795.25/799.75
A-21	513.25/517.75	A-45	657.25/661.75	A-69	801.25/805.75
A-22	519.25/523.75	A-46	663.25/667.75	A-70	807.25/811.75
A-23	525.25/529.75	A-47	669.25/673.75	A-71	813.25/817.75
A-24	531.25/535.75	A-48	675.25/679.75	A-72	819.25/823.75
A-25	537.25/541.75	A-49	681.25/685.75	A-73	825.25/829.75
A-26	543.25/547.75	A-50	687.25/691.75	A-74	831.25/835.75
A-27	549.25/553.75	A-51	693.25/697.75	A-75	837.25/841.75
A-28	555.25/559.75	A-52	699.25/703.75	A-76	843.25/847.75
A-29	561.25/565.75	A-53	705.25/709.75	A-77	849.25/853.75
A-30	567.25/571.75	A-54	711.25/715.75	A-78	855.25/859.75
A-31	573.25/577.75	A-55	717.25/721.75	A-79	861.25/865.75
A-32	579.25/583.75	A-56	723.25/727.75	A-80	867.25/871.75
A-33	585.25/589.75	A-57	729.25/733.75	A-81	873.25/877.75
A-34	591.25/595.75	A-58	735.25/739.75	A-82	879.25/883.75
A-35	597.25/601.75	A-59	741.25/745.75	A-83	885.25/889.75
A-36	603.25/607.75	A-60	747.25/751.75		
A-37	609.25/613.75	A-61	753.25/757.75		

UHF Channels: Japan.

ch	MHz	ch	MHz	ch	MHz
45	663.25/667.75	51	699.25/703.75	57	735.25/739.75
46	669.25/673.75	52	705.25/709.75	58	741.25/745.75
47	675.25/679.75	53	711.25/715.75	59	747.25/751.75
48	681.25/685.75	54	717.25/721.75	60	753.25/757.75
49	687.25/691.75	55	723.25/727.75	61	759.25/763.75
50	693.25/697.75	56	729.25/733.75	62	765.25/769.75

EUROPE

ALBANIA

RADIODIFFUSION TELEVISION ALBANAISE

Addr: Rue Ismail Quemal, Tirana. **L.P:** see radio.
Station: chR2 0.02kW — Exp. tr's three times a week at 18.00-21.00.
TV-sets: 2000.

AUSTRIA

OESTERREICHISCHER RUNDFUNK

Addr: Television Dept, Argentinierstr. 22, 1041 Wien. **Te:** 655730. **Cable:** Fernsehen. Studios: Maxingstr. 13a, Wien XIII. Singrienergasse 21, Wien XII, Columbia-studio, Rothgasse 9, Wien I
L.P: Dir. Gen: G. Bacher. Dir. TV: Dr. H. Zilk. Dir. Tec: Dr. G. Skalar.
Stations: Pol: H.

				ch	kW (W)
Dünderberg I	E9	3/0.3	Jauerling I	E2	60/6
Pyramidenkogel I	E10	30/3	Patscherkofel I	E4	60/6
Sonnwendstein I	E10	5/0.5	Pfänder I	E5	80/8
K. Kaibling I	E11	10/1	Kahlenberg I	E5	60/6
Jauerling II	E21	800/80	Lichtenberg I	E6	100/10
Schöckl II	E23	800/80	Gschwandkopf I	E6	1/0.1
Kahlenberg II	E24	400/40	Schöckl I	E7	100/10
Gaisberg II	E32	800/80	Rauchkofel I	E7	1/0.1
Kahlenberg III	E34	40/4	Wachberg I	E7	5/0.5
Lichtenberg II	E43	800/80	Gaisberg I	E8	100/10
Wachberg II	E58	100/10	Mugel I	E9	20/2

10.9.68: + 99 low power freq. changers.
D. Prgr: W 17.30-23.00 (Sun/Wed/Sat 16.00-24.00, Wed & Fri 10.00-12.00 (for shift workers); Wed, Fri 09.00-10.00 & Thurs 10.00-11.30 for schools. **Fi:** By license payments & Adv — **TV sets:** 1.072.866 **ALF:** O.Sch' 600.

BELGIUM

RADIODIFFUSION-TELEVISION BELGE (RTB) — BELGISCHE RADIO EN TELEVISIE (BRT) (Gov.)

Addr: RTB or BRT, Place Eugene Flagey 18, Brussels 5. **Te:** French and Dutch 496050. **Cable:** RTB or BRT-TV — **L.P:** Dir. French Prgrs: L.P. Kammans. Dir. Dutch Prgrs: B. Janssens.

French Prgr: Def. 625

Ougrée	chE	3	100/25	kW/H
Wavre	chE	8	100/25	kW/H
Anlier	chE	11	10/2.5	kW/H

Dutch Prgr: Def. 625

Aalter	chE	2	100/25	kW/H
Wavre	chW	10	100/25	kW/H

+ 2 satellites.

+ 7 satellites.
D. Prgr: French: W 17.30-22.00. Sun 14.00-17.45, 19.30-22.30.
School Prgr: Mon. Tues, Thurs, Fri 13.15-14.00 — **Dutch:** 18.00-21.45 (or 22.00). **School Prgr:** Mon, Tues, Thurs 13.05-14.00.
FI: By state grant in aids — **TV sets:** 1.800.625 — **ALF:** Bfrs 840,-.

BULGARIA

BULGARIAN TELEVISION (Gov.)

Addr: Todor Strashimirov 2, Sofia. **Te:** 4-63-21. **Cable:** TV Bulgar. **Telex:** 581. **L.P:** V. Baev.
Station: Sofia chR7 10/5kW. **D.Prgr:** W exc Tues 16.00-20.30. Sun 15.00-20.30. **TV sets:** 190.000.

CYPRUS

CYPRUS BROADCASTING CORPORATION

Addr: P.O. Box 1824, Nicosia. **Cable:** Broadcasrs. **Te:** 22231. **Telex:** 2333. **L.P:** Dir. Gen: A. Christofides. Dep. Dir. Gen: I. Hadjiossif. Chief Eng: P. T. Astreos. Head of TV Prgr: G. Mitsides. Head of Comm. Div: D. Kyprianou. **Stations:** Mt. Olympus chE6 40/8kW v, Mt. Sina Oros chE8 40/8kW V. **D. Prgr's:** 16.30-20.30 — **TV sets:** 30.000 — **ALF:** £3/0/0.

CZECHOSLOVAKIA

CESKOSLOVENSKA TELEVIZE

Addr: Ceskoslovenská televize, nám M. Gorkého 29, Praha 1. **Te:** 223356. **Cable:** Televize. **Telex:** 0400. **L.P:** Dir. Gen: J. Pelikan. Techn. & Economi. Dir: J. Benes. Dir: For. Rel: L. Kubicek. Dir. Prgr: Z. Nohác. Dir. Telexport (Selling & Buying films): J. Khun.
Stations: Ch. OIRT. Polarisation: H.

Praha	ch	kW	Ostrava	ch	kW
Stredni Cechy	1	30/6	Severni Morava	1	10/2
Jizni Cechy	2	10/2	**Bratislava**		
Vychodni Cechy	6	10/2	Západni Slovensko	2	10/2
Petrin	7	2.5/0.5	Vychodni Slovensko	6	10/2
Západni Cechy	10	10/2	Streni Slovensko	7	10/2
Severni Cechy	12	8/1.6			
Brno					
Jizni Morava	9	10/2			
Jihlava	11	5/1			

D. Prgr: Approx. 60 hrs. per week: Mon 16.00-22.00; Tues 07.30-10.45; 15.00-22.30; Wed 08.30-11.00, 14.30-21.45; Thurs 16.30-21.30; Fri 07.00-11.35, 16.25-21.45; Sat 08.00-10.45, 14.00-22.30; Sun 08.15-11.10, 14.00-21.30. **Ad:** Approx. 15 mins. daily. **TV sets:** 2700.500 — **ALF:** Czech Crowns: 180.00.

DENMARK

RADIO DENMARK (Gov.)

Addr: Danmarks Radio, TV, Rosenørsallé 22, Copenhagen 1970 V. **Te:** (01) 350647. **Cable:** Danradio. **Telex:** 2695. **L.P:** Dir. Gen: Hans Sølvhøj. Dir. Adm: °Einar Jensen. Dir. Prgr: Laur. Bindsløv. Dir. Tec: (Radio and TV): Fr. Heegaard. Dir. Tec: (TV) P. Hansen. Dir. Entertainm: Niels-Jørgen Kaiser. Dir. Actualities Dept: Hans Jørgen Jensen. Dir. Cult. Dep: Werner Svendsen. Dir. Drama: Felix Nørgaard. Dir. children & youth prgrs: Mogens Vemmer. Dir. Educ. broadcasts: Valdemar Christensen.
Stations: chE, pol H exc those marked * = V. ** = Experimental.

	ch	kW/W		ch	kW/W
Funen	3	10/1	Århus	8	10/1
Copenhagen	4	10/1	Frederikshavn*	8	50/5 W
Ålborg	5	50/5	Kolding	9	100/10 W
Bornholm	5	10/1	Kollund*	9	100/10 W
Vejle*	5	50/5 W	Esbjerg*	9	50/5 W
Horsens*	6	50/5 W	We. Jutland	10	60/10
Randers*	6	50/5 W	Skagen*	11	50/5 W
Silkeborg*	6	50/5 W	Grenå	11	50/5 W
So. Seeland	6	60/6	Hirtshals	11	50/5 W
Hobro*	7	5/1 W	København**	31	125/12.5
So. Jutland	7	60/6			

D. Prgr: 18.30-21.30; Youth, Educational and childrens prgr's: 08.15-08.40 (Mon-Tues-Fri), 09.15-09.40 (Mon-Thurs), 12.15-12.40 (Wed-Thurs-Fri), 14.15-15.00 (Thurs-Fri), 16.15-17.00 (Tues-Sat). **Fi:** By license payments.
TV sets: 1.200.000 — **ALF:** Kr. 231.00.

FINLAND

OY YLEISRADIO AB (Gov.)

Addr: Prgr. I: Pasila, Helsinki 101. **Te:** 41681. **Cable:** Yletv.
Telex: 12849-Prgr. II: Tampere, Hämeenkatu 22C. **Te:** 30330.
Telex: 922-176. **L.P:** Head of TV Prgr. I: V. Zilliacus. Dir. of TV Prgr: II: H. Leminen. For other leaders: see radio.
Stations:

Prgr. I	ch	kW	Po	Prgr. I	ch	kW	Po
Taivalkoski	2	15	V	Koli	8	20	H
Tervola	3	20	H	Tampere	8	80	H
Kajaani	4	15	H	Kerimäki	9	10	H
Ruka	4	0.1	V	Lahti	9	80	H
Iisalmi	5	0.2	V	Rovaniemi	9	0.7	V
Lapua	5	80	H	Ylivieska	9	60	H
Pyhätunturi	5	60	H	Joutseno	10	10	H
Sippola	5	20	H	Kaunispää	10	0.5	H
Tammisaari	5	0.15	H	Pihtipudas	10	5	H
Helsinki	6	10	H	Tammela	10	8	H
Mikkeli	6	10	V	Eurajoki	11	20	H
Pyhävuori	6	20	H	Jyväskylä	11	10	H
Kokkola	7	0.1	H	Vaasa	11	0.1	H
Kuopio	7	45	H	Yläastunturi	11	60	H
Oulu	7	60	V	Helsinki UHF	24	25	H
Turku	7	60	H				

+ 20 low power repeaters.
D. Prgr: Mon-Fri 15.30-21.00; Sat 14.30-22.00; Sun 13.00-21.00. Prgr. for schools (exc. summertime) Mon-Fri 07.10-08.40.

Prgr. II Station	ch	kW	Po	Station	ch	kW	Po
Tampere	2	10	V	Turku	9	10	V
Helsinki	8	10	H	Lahti UHF	40	1	H

+ 1 low power repeater.
D. Prgr: 17.00-20.30. **Fi:** by license fees & adv — **TV sets:** 939.277 — **ALF:** Fmk.80,-.

FRANCE

OFFICE DE RADIODIFFUSION-TELEVISION FRANCAISE (Etablissement Public)

Addr: 116, Avenue du Président Kennedy, Paris 16 — **L.P:** see radio.
1st Prgr: (819 lines):
Principal stations: Audio powers 1/4 of Vision powers indicated.

Location	chF	kW (ERP)	Pol	Location	chF	kW (ERP)	Pol
Bastia	2	3	V	Niort	7	20	V
Caen	2	20	H	Lille	8A	20	H
Limoges	2	20	H	Mezieres	8A	0.5	V
Troyes	2	20	H	Paris	8A	20	H
Ajaccio	4	0.5	H	Brest	8	10	H
Besançon	4	3	V	Marseille	8	20	H
Carcassonne	4	20	V	Mulhouse	8	20	H
Hyeres	4	0.25	V	Bourges	9	20	H
Nantes	4	20	V	Bordeaux	10	10	H
Reims	5	10	V	Dijon	10	3	V
Rennes	5	20	H	Grenoble	10	0.05	H
Strasbourg	5	3	H	Rouen	10	10	H
Toulouse	5	2	H	Toulouse	10	0.05	H
Antisanti	6	0.5	H	Amiens	11	20	V
Clermont Ferrand	6	10	V	Aurillac	11	0.5	V
Metz	6	10	H	Toulon	11	0.05	H
Montpellier	6	0.05	H	Cherbourg	12	0.5	H
Saint-Raphael	6	3	V	Le Mans	12	10	V
Gex	7	3	V	Lyon	12	20	H
Le Havre	7	0.5	H	Perpignan	12	0.05	H
Nancy	7	0.05	V	Vannes	12	0.5	H

+ 828 low powered relay st's.
D. Prgrs: W 11.30-12.30, 17.20 (Tues 14.30)-22.15. Sat 14.30-22.15; Sun 07.55-22.45. **Reg. Prgr's:** 18.20-18.40; Sat also 12.30-13.00).

Following on the type TM 110 and TM 112, of which more than a thousand sets are in use throughout the world, the new type TM 210 represents the third generation of CSF transportable television radio-relays. It was designed in close collaboration with the O.R.T.F. Outside-broadcasting Department, it uses solid-state techniques throughout and transmits pictures (monochrome or colour) and associated sound together. TM 210 equipment was extensively utilised at the Winter Olympic Games (Grenoble, 1968).

SPI 838

CSF. COMPAGNIE GÉNÉRALE DE TÉLÉGRAPHIE SANS FIL

Groupement Télécommunications - Télévision-Radionavigation / 55, rue Greffulhe - 92 - Levallois-Perret - France - Tél. : 737-34-00

Second Prgr: (625 lines): Pol = H.
Audio powers ⅛ of vision powers indicated.

Station	ch	kW(ERP)	Station	ch	kW(ERP)
Ajaccio	21	10	Toulouse	39	0.45
Brest	21	50	Lyon	40	50
Gex	21	20	Besançon	41	10
Lille	21	50	Le Havre	43	10
Mulhouse	21	50	Rennes	45	50
Toulouse	21	10	Reims	46	50
Niort	22	50	Bastia	47	20
Paris	22	20	Longwy	47	2
Marseille	23	50	Toulon	48	2
Mezieres	23	20	Grenoble	50	2
Troyes	24	50	Limoges	50	50
Caen	25	50	Strasbourg	56	50
Perpignan	25	0.45	Vannes	56	20
Bourges	26	50	Bordeaux	57	50
Chambery	26	10	Bayonne	58	0.45
Le Mans	27	50	Carcassonne	58	50
Clermont			Lyon	58	2
Ferrand	28	20	Nice	58	0.45
St-Raphael	28	20	Cherbourg	59	2
Nancy	29	20	Hyeres	59	2
Nantes	29	50	Epinal	60	2
St. Etienne	30	0.45	Antisanti	61	2
Rouen	33	20	Dijon	62	20
Boulogne	34	2	Sens	63	4
Metz	34	50	Aurillac	65	20

+ 57 low powered relay st's.
D. Prgr: Sun 13.30-22.30; W 18.40-22.00
Colour transmissions (SECAM system) are aired by the tr's of the 2nd Netw. 22 hrs. weekly. **Projected:** Abbeville 10kW (57h), Amiens 20kW (47h) Chartres 10kW (50kW (50h), Forbach 1kW (22h), Avignon 10kW (45h), Montpellier 50kW (50h), Sarrebourg 4kW (53h), Bayonne 10kW (58h), Besancon 10kW (23h), Menfon 2kW (50h).
TV sets: 8.879.316 — **ALF:** Frcs 100, –

GERMANY

ARBEITSGEMEINSCHAFT DER OEFFENTLICH RECHTLICHEN RUNDFUNKANSTALTEN DER BUNDESREPUBLIK DEUTSCHLAND (ARD)

German Television Prgr. Direction: 8 München 23, Leopoldstrasse 10. **Te:** 38061. **Telex:** 05-22480 — **L.P:** Prgr. Dir. German Television: L. Hartmann. Deputy Dir: R. E. Lembke. Coordinator Polities: D. Gütt. Press: O. Meitzner. Eurovision Office: Dr. R. Dill. Fernsehbeirat: Chmn: H. Müller-Osterode, 3406 Bovenden/Göttingen, Erlenweg 2. A common prgr. is being broadc. throughout Germany under the title "Deutsches Fernsehen". Each of the organizations participates in the production of this prgr. in addition reg. broadc's are transmitted. Some stations broadcast a third TV-prgr.
Community Television Prgr. (Deutsches Fernsehen): Mon-Fri 15.40-17.05, 19.00-22.00; Sat 13.55-17.30, 19.00-23.00; Sun 10.00-22.00. Closing times are approx.
Third TV Prgr: Bayerischer Rundfunk: Mon-Sun 16.55-21.00; Hessischer Rundfunk: Mon-Fri 18.00-21.00; Norddeutscher Rundfunk/Radio Bremen/Sender Freies Berlin: Sun-Fri 18.00-20.30, Sat 16.00-20.30: Westdeutscher Rundfunk: Mon-Thurs 18.00-20.40; Fri 17.30-22.00; Sat 16.30-21.40; Sun 16.30-21.00 (all times approx.) Saarländischer Rundfunk, Süddeutscher Rundfunk and Südwestfunk a preparing a third prgr, which will be started 1st of April 1969.
TV sets: 14.492.340 — **ALF:** DM 84.00 (tv DM 60.00 + radio DM 24.00).

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR: Bayerischer Rundfunk, 8 München 2, Rundfunkplatz 1.
Studios: 8 München-Freimann and 8043 Unterföhring — **L.P:** Intendant: Chr. Wallenreiter. Dir. TV: Dr. Cl. Münster. Dir. Stud. prgr: Dr. H. Oeller. Dir. Adm: H. Spies. Dir. Tec: Dr. F. Daser.

Stations	chE	kW(ERP) Vision	Stations	chE	kW(ERP) Vision
Grünten	2	100H	Wendelstein	10	100H
Kreuzberg	3	100V	Würzburg	10	5H
Oshsenkopf	4	100V	Hohenpeissenb.	25	10H
Dillberg	6	100H	Hoher Bogen	55	200H
Brotjackliegel	7	100H	Hühnerberg	60	400H

+ 50 low power relay st's
Testtr's: 09.00-11.00, 12.00-15.50; Sat 12.00-15.50
Third Prgr. (Pol H): W 18.00-21.30

Stations	ch	KW(ERP) Vision	Stations	ch	KW(ERP) Vision
Deggendorf	40	430	Spessart	51	250
Coburg	41	250	Bayreuth	54	100
Regensburg	42	370	Bamberg	56	90
Amberg	43	500	München	56	220
Augsburg	44	500	Hof	57	500
Würzburg	45	500	Landshut	58	55
Grünten	46	500	Nürnberg	59	440
Rhön	49	500	Passau	60	40

PUB: "Pressedienst — Studienprogramm" (weekly) — **Fi:** By license payments.

HESSISCHER RUNDFUNK

(Anstalt des öffentlichen Rechts)
Addr: 6000 Frankfurt (Main) 1, Postfach 3294. Bertramstrasse 8. **L.P:** Intendant: W. Hess. Dir. Prgr. (TV): H. O. Grünefeldt. Chief Editor News: W. Hanke. Play: Dr. H. Prescher. Prod: G. Meyer. Youth and family Prgr: F. Göhlen. Education: M. Benesch.

Stations: Biedenkopf chE2 30/2kW Hd — Hardberg chE5 5/0.6kW Hd — Meissner chE7 100/10kW H — Feldberg chE8 100/10kW H — Fulda chE47 10/1kW Hd — Rimberg chE57 400/20kW + 60 low power freq. changes
D. Prgr: 15.40-21.30 (Sat also 13.00-15.40): Sun also 10.00-15.40. Test tr's: Mon-Sat 09.00-11.00 (exc. Meissner): Mon-Fri 12.00-15.40 — **Ad:** W between 17.10-17.50, 18.10-18.50.
Third Prgr: "Hessisches Fernsehprogramm" Mon-Fri 18.00-21.00 (approx.) Tr's (Deutsche Bundespost) Kassel ch42, Feldberg ch54, Rimberg ch39, Hoher Meissner ch55.

NDR — TELEVISION

Addr: see radio. **L.P:** Dir. Prgr: D. Schwarzkopf. For other personnel: see radio.
Stations:

	ch	kW Pol		ch	kW Pol
Steinkimmen	2	100H	Lingen	41	400H
Flensburg	4	50H	Dannenberg	43	250H
Kiel	5	12H	Bungsberg	50	260H
Hannover	8	5H	Osnabrück	50	250H
Hamburg	9	100H	Aurich	53	230H
Heide	10	25V	Steinkimmen	55	400H
Harz	10	100H			

+ 61 low power st's.
D. Prgr: Test-tr's: W 12.30-15.30 — **Prgr's** W 09.00-12.00, 15.10-17.05 (Sat 13.10-17.30). D 19.00-20.00 — **Reg. Prgr:** W 17.05 (Sat 17.30)-18.59.
Third Prgr: 18.00-21.30, Sat 17.00-21.30 (approx). Common prgr. of Norddeutscher Rundfunk, Radio Bremen & Sender Freies Berlin: Lübeck ch33 240kW H, Hamburg ch40 500kW H, Bremen ch42 500kW H, Aurich ch43 400kW H, Elderstedt ch44 500kW H, Hannover ch44 500kW H, Höhbeck ch45 440kW H, Schleswig ch45 100kW H, Eutin ch47 500kW H, Cuxhaven ch48 330kW H, Torfhaus ch53 500kW H, Kiel ch55 200kW H, Flensburg ch57 250kW H, Uelzen ch58 400kW H, Göttingen ch59 270kW H, Lingen ch59 400kW H, Niebüll ch60 150kW H + 5 low power st's.

RADIO BREMEN (Anstalt des öffentlichen Rechts)

Addr: Heinrich-Hertz Str. 13, Bremen. **L.P:** Dir: H. Abich.
Stations: Bremen chE22 100/20kW H, Bremerhaven chE5 0.16/0.03kW V. **D.Prgr:** D 18.00-21.30. **Reg.Prgr:** W 17.15 (Sat 17.30)-19.00.
Special Prgr: Mon-Fri 09.00-12.00.
Third Prgr: Bremen chE42 500/100kW H: 18.00-20.30 (approx).
Fi: By license payments — **Ad:** D (exc. Sun) max 20 min.

SAARLANDISCHER RUNDFUNK-FERNSEHEN

Addr: 66 Saarbrücken. Postfach 1050. **L.P:** Dir: K. Schnelting. Chief Editor: K. H. Reintgen.
Station: Göttelborner Höhe ch2 100/20kW V + 16 low power satellites — **D.Prgr:** Reg. Prgr: Mon-Fri 11.30-12.30, 17.05-18.59, Sat 17.30-18.59 — "Deutsches Fernsehen": 3% annual participation. **Fi:** By license payments and adv — **Ad:** 17.05-18.59.

SENDER FREIES BERLIN

Addr: Fernsehen, Masurenallee 8/14, 1 Berlin 19. **Te:** 30331.
Cable: Sender Freies Berlin. **L.P:** see radio.
Station: Berlin chE7 100/10kW. **D.Prgr: W** 09.00-12.30, 15.40-17.05 (Sat 13.00-17.30), 19.00-22.00 (approx). Sun 09.00-09.50, 10.00-21.45. **Reg. Prgr's:** Mon-Fri 15.00-15.30, 17.05-19.00; Sat 08.00-08.45, 12.00-12.30, 17.30-19.00.
Third Prgr (NDR/RB/SFB): 18.00-20.45 (approx).
Station: Berlin ch39 500/50kW H — **Fi:** By license payments.

SUDDEUTSCHER RUNDFUNK FERNSEHEN

(Anstalt des öffentlichen Rechts) Addr. and **L.P:** see radio.

Station	ch	kW(ERP)	
Heidelberg I	7	100/20kW	V
Aalen	8	50/4kW	V
Waldenburg	9	100/20kW	H
Stuttgart	11	100/20kW	H
Langenbrand	21	100/10kW	H
Heidelberg II	50	500/100kW	H

+ 38 low power freq. changers.
D.Prgr: W 16.00-17.05, 19.00-21.30 (approx); Sat 14.00-17.05, 19.00-22.00 (approx). Sun 10.00-22.00 (approx) — **Reg. Prgr:** Mon-Fri 17.05-19.00 — **Ad:** W 17.20 (Sat 17.30)-17.50, 18.20-19.00. **Test Prgrs:** W 09.00-11.00 and 12.00 to start of Prgr's.

SUDWESTFUNK (Anstalt des öffentlichen Rechts)

Addr: Südwestfunk Fernsehen, 7570 Baden-Baden, Hans-Bredow-Str. **Te:** 2761. **Cable:** Südwestfunk, Baden-Baden. **L.P:** see radio.
Stations: Pol: H.

	chE	kW(ERP)		chE	kW(ERP)
Baden-Baden	7	0.32	Kaisersl.	7	0.32
Brandenkopf	48	2.5	Koblenz	6	50
Donnersberg	10	100	Mainz	11	1
Eggberg	22	0.8	Marienberg	47	50
Eifel	23	20	Raichberg	4	40
Feldberg	8	100	Saarburg	31	20
Freiburg	7	0.9	Trier	5	0.6
Freiburg	58	170	Waldshut	21	1
Grünten	43	500	Wannenberg	30	5
Haardtkopf	25	200	Weinbiet	6	30
Hornisgrinde	9	100	Zweibrücken	7	0.04

+ 177 low power satellites. **D.Prgr:** Variable.

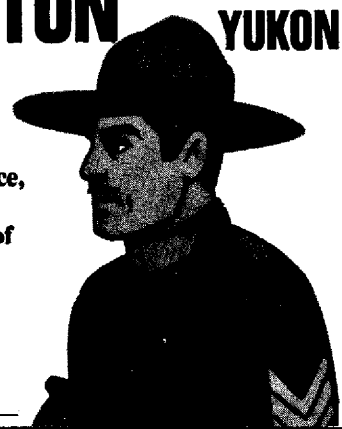
AVAILABLE! SUCCESSFUL PROGRAMS
FOR WORLD-WIDE TELEVISION AUDIENCES.

LASSIE

Over 450 half-hour programs. Heartwarming stories of the world's most beloved dog, a boy and his family.

SERGEANT PRESTON OF THE YUKON

78 half-hour episodes. Tales of the Mounted Police, set in the granduer of the Canadian Northwest.



THE LONE RANGER

220 half-hour subjects (plus 26 cartoon shows). The righter of wrongs of the old American West, with his faithful Indian friend, Tonto.

INQUIRIES:

WRATHER CORPORATION

DEPT. S, 270 N. CANNON DRIVE, BEVERLY HILLS, CALIF. U.S.A.

WDR FERNSEHEN

Addr: Wallrafplatz 5, Köln. **Te:** 2201. **Cable:** WDR Studios: 53 Bonn, Dahlmannstr. 14; 4 Düsseldorf, Achenbachstr. 5.
L.P: Dir: Dr. Hans Joachim Lange. Dir. Third Prgr. TV: Werner Höfer.

First TV Prgr: Pol: H

Stations	chE	kW(ERP)	Stations	chE	kW(ERP)
Bonn	5	0.5/0.05	Aachen-Stolb.	24	200/20
Wuppertal	6	0.6/0.06	Nordhelle	30	240/24
Langenberg	9	100/10	Münster-B	32	500/50
Köln	11	10/1	Kleve	46	100/10
Teutob. Wald	11	100/10			

+ 180 low power freq. changers.
D.Prgr: Testtr: W 09.00-11.00, 12.00-17.00 (Sat 13.00) — **Reg. Prgr:** W 17.05-19.00, Sat 13.30-13.55, 17.30-19.00 — **Common Prgr:** Sun 10.00-22.00; Mon-Thurs 15.40-17.05, 19.00-21.30; Fri 19.00-22.30 (approx); Sat 13.55-17.05, 19.00-23.00 (approx).

Third Prgr: Mon-Thurs 18.00-20.40; Fri 17.30-22.00; Sat 16.30-21.40; Sun 16.30-21.00 (approx).

Stations	chE	kW(ERP)	Stations	chE	kW(ERP)
Wuppertal	42	85/8.5	Dortmund	53	470/47
Münster-Baumb	45	250/25	Düsseldorf-Witzh.	55	450/45
Bielefeld	46	450/45	Aachen	58	450/45
Bonn	49	85/8.5	Lüdenscheid	60	250/25
Monschau	50	280/28			

ZWEITES DEUTSCHES FERNSEHEN

(Anstalt des öffentlichen Rechts)
(All prgrs are broadc. simultaneously on the stations listed below and originated at the main studios in Mainz).

Addr: 65 Mainz, Postfach 4040. **Te:** 131. **Telex:** 04-187661 — **L.P:** Dir. Gen: Prof. Dr. K. Holzamer. Dir. Prgr: J. Viehöver. Dir. Inf: W. Dietrich. Dir. Adm: Dr. F. Huch. Dir. Tec: R. Kaiser. Dir. Foreign Relations: E. P. Braun. Film Buyer: K. Brüne, H. Blank.
Stations: chE. Pol: H.

	ch	kW(ERP)		ch	kW(ERP)
Eutin	21	500/50	Hamburg	30	500/50
Göttingen	21	500/50	Passau	30	50/5
Höhbeck	21	500/50	Baden-Baden	31	330/33
Marienberg	21	500/50	Eggebirge	31	250/25
Monschau	21	330/33	Eiderstedt	31	500/50
Münster	21	250/25	Koblenz	31	100/10
Regensburg	21	500/50	Pfaffenhofen	31	500/50
Coburg	22	250/25	Bremen	32	500/50
Donaueschingen	22	100/10	Hesselberg	32	250/25
Hohes Lohr	22	100/10	Hoher Meissner	32	500/50
Hohenpeissenbg.	22	15/1.5	Saarbrücken	32	330/33
Kaiserslautern	22	25/2.5	Ahrweiler	33	250/25
Wuppertal	22	100/10	Berlin	33	500/50
Augsburg	23	500/50	Bielefeld	33	500/50
Hof	23	300/30	Deggendorf	33	500/50
Lübeck	23	250/25	Freiburg	33	500/50
Torfhaus	23	500/50	Krehberg	33	100/10
Bamberg	24	100/10	Ostfriesland	33	500/50
Cuxhaven	24	330/33	Ulm	33	500/50
Hannover	24	500/50	Feldberg/Ts.	34	500/50
Lingen	24	500/50	Niebüll	34	200/20
Dortmund	25	500/50	Nürnberg	34	500/50
Rimberg	25	400/40	Pforzheim	34	250/25
Würzburg	25	500/50	Haardtkopf	35	400/40
Bonn	26	100/10	Kassel	35	200/20
Minden	26	500/50	Kiel	35	250/25
Schleswig	26	100/10	München	35	500/50
Schnaitsee	26	500/50	Rottweil	35	330/33
Stuttgart	26	500/50	Spessart	35	250/25
Heidelberg	27	500/50	Wesel	35	500/50
Hochsauerland	27	250/25	Aachen	37	500/50
Uelzen	27	500/50	Amberg	37	500/50
Boppard	28	250/25	Donnersberg	37	330/33
Brandenkopf	28	50/5	Lüdenscheid	37	250/25
Grünten	28	500/50	Ravensburg	37	500/50
Hoher Bogen	28	330/33	Trier	37	50/5
Langenburg	28	250/25	Flensburg	39	500/50
Düsseldorf	29	500/50	Hochrein	39	300/30
Heubach	29	250/25	Landshut	39	50/5
Rhön	29	500/50	Osnabrück	39	250/25
Bayreuth	30	100/10	Bad Reichenhall	42	50/5
Eberbach	30	250/25			

D.Prgr: Test tr's: Mon-Fri 08.00-08.45 (colour), 08.45-13.30, 13.30-15.30 (colour), 15.30-16.45; Sat/Sun 11.00-13.00 (colour), 13.00-prgr. begin.
Common Prgr: Mon-Fri 16.45-22.00, Sat 13.30-23.30, Sun 10.30-21.30. Sport on Sat & Sun afternoons. Closing times are approx. **Fi:** By license payments.

ARMED FORCES TELEVISION (US MIL)

Addr: 1) Spangdahlem Air Base, Detachment 101, 7122nd Support Squadron, APO New York, NY 09123; 2) Ramstein Air Base, Detachment 100, 7122nd Support Squadron, APO New York, NY 09012, 3) Detachment 1, 7122nd Support Squadron, APO New York, NY 09611.
Stations: 1) Spangdahlem (near Bitburg) chA22 8/1.6kW H; 2) Ramstein (near Kaiserslautern) chA26 3/0.6kW H; 3) Berlin chA25.

GERMANY

GERMAN DEMOCRATIC REPUBLIC

DEUTSCHER FERNSEHFUNK (Gov.)

Addr: 1199 Berlin-Adlershof, Rudower Chaussee 3-5. **Te:** 63260.
Cable: Fernsehfunk Berlin. **L.P:** Intendant: H. Adameck. 1. Stellvertreter des Intendanten: W. Kleinert. Programm Leitung: D. Schmotz. Sendeleitung: M. Weigand & J. Hardge. Leiter der Internationalen Verbindungen: Dr. K. Ottersberg.
Stations: Helpterberg chE3 6/1.2kW H, Cottbus chE4 6/1.2kW H, Berlin/Inselberg chE5 100/20kW H, Brocken chE6 100/20kW H, Görlitz chE6 1/0.2kW H, Schöneck chE6 0.5/0.1kW V, Eisenhüttenstadt chE7 500/100kW H, Karl-Stadt chE8 100/20kW H, Leipzig chE9 100/20kW V, Dresden chE10 100/20kW V, Schwerin chE11 100/20kW H, Frankfurt/Oder chE11 0.5/0.1kW H, Blessberg chE12 0.5/0.1kW H, Dequede chE21 500/100kW H, Berlin chE29 500/100kW H.
D.Prgr: Mon-Fri 08.50-13.00, 17.00-22.00; Sat 08.50-23.00; Sun 08.50-22.00. **Ad:** Three times weekly after 18.00. **TV sets:** 4.100.000.

GIBRALTAR

GIBRALTAR TELEVISION (Comm.)

Addr: TV House, Wellington Front, Gibraltar. Studios: TV House, Queensway, Gibraltar. **Te:** 4671/2. **Cable:** Broadcasts.
L.P: see radio. **Station:** chE6 200/40kW H. **D.Prgr:** 18.30-23.00.
TV sets: 5.700 — **ALF:** £3-0-0.

GREAT BRITAIN

BRITISH BROADCASTING CORPORATION

The BBC's Television Service is an integral part of the British Broadcasting Corporation — **ADDR:** Broadc. House, London W.1 — **L.P:** Dir. TV: H. Wheldon, O.B.E, M.C. Contr. BBC-1: P. L. Fox. Contr. BBC-2: D. Attenborough. Contr. Prgr. Sce's: I. Atkins. O.B.E. Contr. TV Adm: S. G. Williams, O.B.E. Gen. Mgr: TV Enterprises: D. G. Scuse, M.B.E. Chief Eng: S. N. Watson, O.B.E.
BBC-1 (405 lines, VHF) *) = directional aerial.

Stations	ch	kW (ERP)	Pol.	Stations	ch	kW (ERP)	Pol.
Crystal Palace	1	200	V	Sutton Coldfield	4	100	V
Ashkirk	1	18*	V	Sandale	4	30*	H
Divis	1	35	V	Sandale	6	70*	H
Redruth	1	10*	H	Melvaig	4	25*	V
Thrumster	1	7*	H	Meldrum	4	17*	H
Llanddona	1	6*	V	Manningtree	4	5*	H
Llandrindod			V	Haverfordwest	4	10*	H
Wells	1	1.5	H	Les Platons	4	1	H
Holme Moss	2	100	V	Wenvoe	5	100	V
Rosemarkie	2	20*	H	Wenvoe	13	200*	V
No. Hessary Tor	2	15*	V	Orkney	5	15*	V
Swingate	2	1.5*	V	Pontop Pike	5	17	H
Londonderry	2	1.5*	H	Forfar	5	5*	V
Kirk o'Shotts	3	100	V	Br. Mountain	5	7*	V
Rowbridge	3	100*	V	Douglas	5	3*	V
Tacolneston	3	45*	H	Fort William	5	1.5	H
Skriaig	3	12*	H	Peterborough	5	1	H
Bressay	3	6*	V	Moel-y-parc	6	20*	V
Morecambe Bay	3	5*	H	Winter Hill	12	125*	V
Blaen-plwyf	3	3*	H	Belmont	13	20	V

+ 46 low power satellites.
D.Prgr: All stations: Trade Test tr's: Mon-Sat 09.00-13.00. Prgr. (hours approx): Mon-Fri 10.00-12.00, 14.00-14.40. For Schools (during term-time) 09.10-12.00, 14.00-16.30; 17.00-23.05. Sat 13.45-23.00. Sun 14.00-18.15, 19.00-23.00.
BBC-2 (625 lines, UHF): colour

Stations:	ch	kW (ERP)	Pol.	Stations:	ch	kW (ERP)	Pol.
Rowridge	24	500	H	Emley Moor	51	1000	H
Lark Stoke	26	10	V	Wenvoe	51	500	H
Divis	27	500	H	Dover	56	100	H
Bromsgrove	27	4	V	Winter Hill	62	500	H
Belmont	28	500	H	Reigate	63		V
Crystal Palace	33	500	H	Llanddona	63	100	H
Sutton Coldfield	40	1000	H	Pontop Pike	64	500	H
Tunbridge Wells	44		V	Hertford	64		V
Black Hill	46	500	H	Kidderminster	64	2	H
Guildford	46		V				

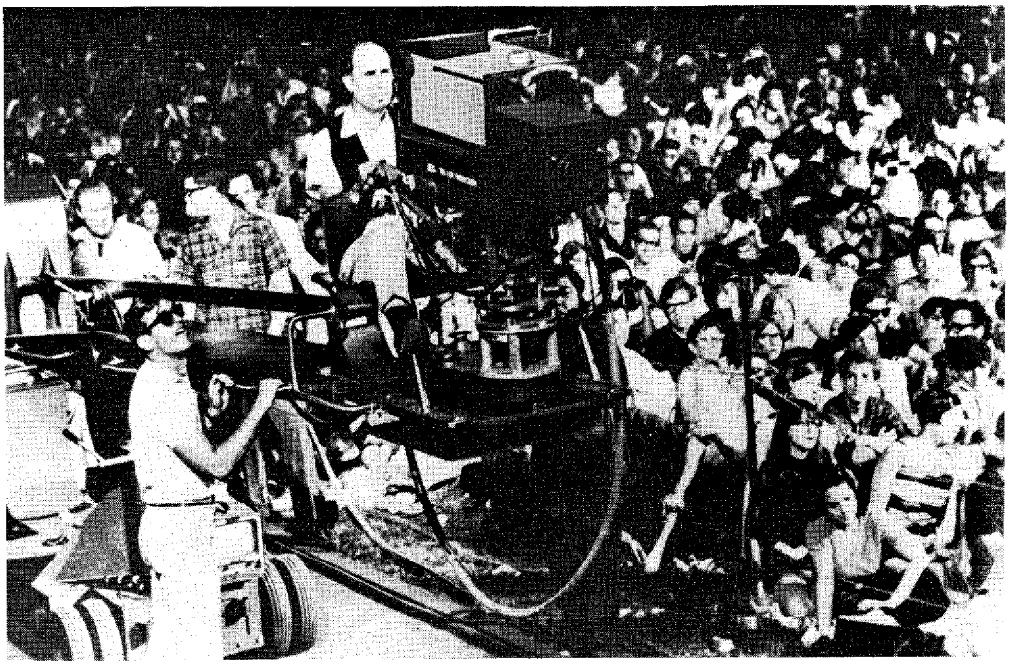
TV sets: 15.152.566. **Colour TV sets:** 35.763 — **ALF:** £6/-/- (£11/-/- for colour sets).

INDEPENDENT TELEVISION AUTHORITY (I.T.A.) Comm.

Addr: 70 Brompton Rd, London, S.W.3. **Te:** 584-7011. **L.P:** Chmn: Rt. Hon. Lord Aylestone. Dir. Gen: Sir S. Fraser. Dep. Dir. Gen. (Prgr. Sces): B. C. Sendall. Dep. Dir. Gen. (Adm. Sces): A. W. Pragnell.

Stations:	ch	Po.	W(ERP)	Stations:	ch	Po.	W(ERP)
Ridge Hill	6	V	5	Rumster Fst.	8	V	30
Sandy Heath	6	H	30	Strabane	8	V	100
Scarborough	6	H	1	Black Mntn.	9	H	100
Bala	7	V	100	Croydon	9	V	400
Belmont	7	V	20	Durris	9	H	400
St. Hilary (W)	7	V	100	Fremont Pt.	9	H	10
Whitehaven	7	V	100	Llandrindod Wells	9	H	2.5
Bath	8	H	500	Stockland Hill	9	V	100
Burnhope	8	H	100	Winter Hill	9	V	100
Lichfield	8	V	400	Arfon	10	H	10
Presely	8	H	100	Black Hill	10	V	475
Richmond Hill	8	H	10				
Rothesay	8	V	1				

Marconi Mark VII the 'hands-off' colour television camera with the highest sensitivity



By courtesy of Teletape Productions, New York

OUTSTANDING RELAY OPTICS

Only *Relay Optics* enable unique Marconi field lens masks to be fitted. This cuts out stray light and scatter at the vital point, so that only light from the true image areas fall on the tubes, giving higher fidelity colour.

Only *Relay Optics* allow light paths to be extended and directed to enable the use of more accurate and parallel yokes, giving better pictures unaffected by extraneous magnetic fields.

Only *Relay Optics* permit the use of lenses with short back conjugates, which give highest resolution throughout the system.

Only *Relay Optics* allow adequate space for the use of two independent filter wheels for control of light temperature and intensity.

Only *Relay Optics* give complete flexibility in choice of lenses.

Highest sensitivity

Proved highest sensitivity. Optimum spectral distribution without need for electronic colour correction. Special head amplifiers give high fidelity signal at source. Aperture correction applied to luminance channel for fine detail reproduction.

Long term 'hands off' stability

Operates day-after-day with minimum adjustment. Rigid stability results from use of unique thin film circuits, and the highest quality components and most sophisticated circuitry. Unaffected by fluctuating magnetic fields of up to 10 gauss.

Optimum operational flexibility

Ergonomically designed for optimum operational flexibility in studio and O.B use. Compact, rugged and light in machined magnesium. Easily detachable lens package. Highly manœuvrable and adaptable to all cranes and dollies.

THE QUEEN'S AWARD TO INDUSTRY
1966 1967 1968

The Marconi Company Limited
Broadcasting Division,
Chelmsford, Essex, England

AN ENGLISH ELECTRIC COMPANY

LTD/8861

Stations:	ch	Po.	W(ERP)
Dover	10	V	100
Emley Moor	10	V	200
St. Hilary	10	V	200
Abergavenny	11	H	100
Angus	11	V	50
Caldbeck	11	H	100
Chillerton	11	V	100
Huntshaw X.	11	H	500
Llandovery	11	H	100
Mendlesham	11	H	200
Moel-y-Parc	11	V	25
Caradon Hill	12	V	200
Lethanhill	12	V	2
Membury	12	H	30
Mounteagle	12	H	50
Rosneath	13	V	100
Selkirk	13	V	25
Ffestiniog	13	V	100

D.Prgr: Trade transm: W 09.30-until 15 mins. before prgr. For schools (during term time) Mon-Fri 11.00-12.00, 14.00-15.00. **Prgr's:** Mon-Fri 14.45-23.45, Sat 12.00-24.00, Sun 11.00-24.00. **Fi:** Prgr. contractors financed from adv. revenue. I.T.A. financed from rentals paid by contractors. **Ad:** 6 mins. per h averaged over the day. Max. in any 1 h is 7 mins.

Independent Television News Ltd, TV House, Kingsway, London, W.C.2. **L.P:** Chief Exec: Editor: N. Ryan. Gen. Mgr: W. Hodgson. Chief News Editor: H. Whitcomb — Provides the main news bulletins for all ITA Areas — **Independent Television Companies Association,** Knighton House, 52 Mortimer Street, London, W.1. — **L.P:** Secr: Laurence G. Parker — The Association acts on behalf of all prgr. companies on certain matters of common interest.

Prgr. Companies:

Anglia Television Ltd, Anglia House, Norwich. **Te:** 28366. **L.P:** Presentation Mgr: B. Milne — **ATV Network Ltd,** ATV House, 17 Gt. Cumberland Place, London, W.1. **Te:** Ambassador 8040. **L.P:** Head of Factual Programming: R. Heller — **Border Television Ltd,** The Television Centre, Carlisle 25101. **L.P:** Man. Dir: J. Bredin — **Channel Islands Communication (Television) Ltd,** The Television Centre, Rouge Bouillon, St. Helier, Jersey, C.I. **Te:** 23451. **L.P:** Man. Dir: K. A. Killip — **Grampian Television Ltd,** Queen's Cross, Aberdeen. **Te:** 53553. **L.P:** Man. Dir: Lord Windlesham — **Granada Television Ltd,** Granada TV Centre, Quay Street, Manchester 3. **Te:** Deansgate 7211. **L.P:** Joint Man. Dir: C. G. Bernstein — **Harlech Television Ltd,** Pontcanna Studios, Cardiff. **Te:** 26633. **L.P:** Man. Dir: A. J. Gorard — **London Weekend Television Ltd,** Station House, Harrow Rd, Wembley, Middx. **Te:** 9028846. **L.P:** Man. Dir: M. Peacock — **Scottish Television Ltd,** Theatre Royal, Hope St, Glasgow, C.2. **Te:** Douglas 9999. **L.P:** Man. Dir: W. Brown — **Southern Television Ltd,** Southern Independent Television Centre, Northam, Southampton. **Te:** 28582. **L.P:** Man. Dir: C. D. Wilson — **Thames Television Ltd,** Teddington Lock, Teddington, Middx. **Te:** 3252. (Formed by the amalgamation of ABC and Rediffusion). **L.P:** Man. Dir: Howard Thomas — **Tyne Tees Television Ltd,** Television Centre, City Rd, Newcastle-upon-Tyne. **Te:** 610181. **L.P:** Man. Dir: J. A. Jelly — **Ulster Television Ltd,** Havelock House, Ormeau Rd, Belfast 7. **Te:** 28122. **L.P:** Man. Dir: R. B. Henderson — **Westward Television Ltd,** Derry's Cross, Plymouth. **Te:** 69311. **L.P:** Man. Dir: W. H. Cheevers — **Yorkshire Television Ltd,** The Television Centre, Leeds 3. **Te:** 0532 38283. **L.P:** Man. Dir: G. E. Ward Thomas.

TV sets: 15.152.566. **Colour TV sets:** 35.763 — **ALF:** £6/-/- (£11/-/- for colour sets).

GREECE

NATIONAL HELLENIC BROADCASTING INSTITUTE

Addr: Mourouzi Str. 16, Athens 138 — **L.P:** Dir: M. Jiannakakos. **Station:** Athens chE5 0.25/0.06kW H — **D.Prgr:** Experimental tr's: 17.00-19.30 (approx.) — **F.Pl:** Complete TV Network (9 tr's of 30kW & 8 tr's of 10kW).

FORCES TV STATION

Addr: Ypiressía Enimerósseos Enóplon Dhynámeon, 134 Messoghion St, Athens. **Te:** 779067. **L.P:** Dir: Col. A. Vikétos.
Station: chE10 100kW — **D.Prgr:** Experimental tr's D exc. Tues, Thurs 19.00-21.30 (approx.) — **TV sets:** 60.000.

HOLLAND

NEDERLANDSE TELEVISIE STICHTING (N.T.S.)

Addr: P.O. Box 10, Hilversum. **Te:** 02150-81110. **Cable:** Televisie. The Dutch prgr's are provided by the N.T.S. and the broadc. societies as mentioned under radio. **L.P:** Board of the N.T.S. Chmn: E. A. Schüttenhelm. Vice Chmn: H. W. van Doorn. L.L.D. Secr: Ch. E. van der Ploeg.

Prgr. I (Pol: H):
Stations: Lopik chE4 500/20kW, Roermond chE5 50/10kW, Smilde chE6 40/8kW, Goes chE7 5/1kW, Markelo chE7 30/6kW, Goes chE29 125/25kW, Wieringermeer chE39 300/50.2kW.

Prgr. II (Pol: H):
Lopik chE27 500/200kW, Roermond chE31 500/100kW, Goes chE32 125/25kW, Wieringermeer chE45 300/60kW, Smilde chE47 500/200kW, Markelo chE54 300/60kW.

D.Prgr. (Prgr. I): Sun 14.30-16.00, 17.55-21.35; Mon/Tues 17.50-21.25; Wed 16.00-16.30, 17.50-21.20; Thurs 17.50-21.45; Fri 17.50-21.50; Sat 15.00-16.30, 17.50-21.55.
Teleac: Mon/Tues/Thurs/Fri 22.00-22.30, Sat 08.30-10.30; For schools: Tues-Fri 10.00-10.50 (Thurs also 13.00-13.50).
D.Prgr. (Prgr. II): Sun 17.55-21.35; W 17.50-21.30 (approx.). Closing times varies between 21.15 and 21.55. **Ads** are permitted to a max. of 15 mins. daily.
TV sets: 2.675.339 — **ALF:** Dfl. 36,-.

HUNGARY

MAGYAR RADIO ES TELEVIZIO

Addr: Television Direction, Szabadsagter 17, Budapest V. **Te:** 113-200. **L.P:** Dir. Gen: F. Pécsi. Dir. Tec: R. Kerpel. Head, Foreign Relations: P. Csök.

Stations:	ch	kW/Pol	Stations:	ch	kW/Pol
Budapest I	R1	30/10H	Szekszárd	R8	0.02H
Pécs	R2	1/0.4H	Miskolc	R9	0.05/0.025H
Tokaj	R4	20/5H	Sopron	R9	0.05/0.025V
Ózd	R6	0.02H	Szentes	R11	20/4H
Komadi	R7	4/1V	Kabhegy	R12	20/4H
Kékes	R8	4/0.8H	Salgotarjau	R12	0.05H

D.Prgr: Tues, Wed, Thurs, Fri, Sat: 17.00-22.00, Sun 09.00-11.00, 15.00-22.00.
TV sets: 1.282.667 — **ALF:** 600 Forint.

ICELAND

RIKISUTVARPID — SJONVARP
ICELAND STATE BROADCAST SERVICE — TELEVISION

Addr: Laugavegur 176, Reykjavik. **Te:** 3-88-00. **Telex:** 35.
Cable: Isvision. **L.P:** Dir. Gen: A. Björnsson. Dir. TV: P. Gudfinnsson. Dir. Tec: J. D. Thorsteinsson. Head of N. & Educ: E. Björnsson. Head of Arts & Entertainment: S. Hjörleifsson.
Stations: Reykjavik chE10 1kW, Vestmannaeyjar chE5 0.25kW, Borgarnes chE7 0.05kW, Búdardalur chE7 0.05kW, Skáney chE11 0.05kW, Hreppar chE8 0.05kW, Hvalfjördur chE2 0.05kW, Skálafell chE4 0.05kW + 11 low power repeaters at Grindavik, Vik i Mýrdal, Stykkishólmur, Grundarfjördur, Olafsvík, Hellissandur, Selfoss, Kópavogur, Mosfellssveit, Háfell & Búrfell.
D.Prgr: Mon/Fri 20.00-23.00; Tues 20.00-23.00; Wed 18.00-20.00, 20.00-23.00; Sat 17.00-19.00, 20.00-23.00; Sun 18.00-19.00, 20.00-23.00; Thurs no prgr.
TV sets: 23.957 — **ALF:** 2.400,- Kr.

IRELAND

RADIO TELEFIS EIREANN (Statutory Corporation).

Addr: Donnybrook, Dublin 4. **Te:** 693111. **Telex:** 5268. **L.P:** Contr. of Prgr's: M. Garvey. For other personnel: see radio.

Stations: [1]System I (625 lines). [2]System A (405 lines).				
Dublin[2]	ch	B7	100/25kW	H
Sligo[2]	ch	B11	100/25kW	V
Clare[1]	ch	IB	80/16kW	H
Cork[1]	ch	ID	100/20kW	V
Carlow[1]	ch	IF	100/20kW	V
Dublin[1]	ch	IH	100/20kW	H
Sligo[1]	ch	IJ	100/20kW	V

+ 14 low power relay st's.
D.Prgr: 16.30-22.15. **Fi:** By license payments and adv. **Ad:** 10% of prgr. hrs.
TV sets: 382.589 — **ALF:** £5-0-0 (combined TV and radio).

ITALY

RADIOTELEVISIONE ITALIANA

The television Sce. is an integral part of the Radiotelevisione Italiana.
Addr: Direzione Centrale TV, Viale Mazzini 14, 00195 Roma.
L.P: Dir. Prgr: Dr. L. Beretta. For other personnel: see radio.

NATIONAL PRGR:
Piemonte: Torino (C-o) 16/3.2kW + 28 satellites.
Lombardia: Milano (G-o) 24/4.8kW — M. Penice (B-o) 100/20kW + 79 satellites.
Trentino-Alto Adige: Paganella (G-o) 1.33/0.266kW + 51 satellites.
Veneto: M. Venda (D-o) 100/20kW + 74 satellites.
Friuli-Venezia Giulia: Trieste (G-o) 1.4/0.28kW — Udine (F-o) 2/0.4kW + 26 satellites.
Liguria: Portofino (H-o) 127/25.4kW + 40 satellites.
Toscana: M. Argentario (E-o) 2.5/0.5kW — M. Serra (D-o) 270/54kW + 49 satellites.
Marche: M. Conero (E-o) 24/4.8kW — M. Nerone (A-o) 34/6.8kW + 50 satellites.
Umbria: M. Peglia (H-o) 32/6.4kW + 19 satellites.
Lazio: M. Favone (H-o) 0.9/0.18kW — Roma (G-o) 36/7.2kW + 25 satellites.
Abbruzzo: Pescara (F-o) 1/0.2kW + 12 satellites.
Campina: M. Faito (B-o) 40/0.8kW — M. Vergine (D-o) 1/0.2kW + 60 satellites.
Puglia: Martina Franca (D-o) 220/44kW — M. Caccia (A-o) 34/6.8kW — M. Sambuco (H-o) 35/7kW + 50 satellites.
Calabria: Gambarie (D-o) 19/3.8kW — M. Scuro (G-o) 8/1.6kW — Roseto Capo Spulico (F-v) 12/2.4kW + 25 satellites.
Sicilia: M. Cammarata (A-o) 35/7kW — M. Lauro (F-o) 50/12kW — M. Pellegrino (H-o) 8/1.6kW — M. Soro (E-o) 5/1kW + 50 satellites.
Sardegna: M. Limbara (H-o) 3/0.6kW — M. Serpeddi (G-o) 2.12/0.424kW — Punta Badde Urbara (D-o) 145/29kW + 32 satellites.
D.Prgr: W 08.30-14.30 "Telecuola" (for schools), 17.30-18.30 (Childrens h), 18.30-23.15 (approx). Sun 10.15-12.00, 15.00-23.15.

SECOND PRGR:
Piemonte: Torino (ch30) 200/40kW + 20 satellites — **Lombardia:** Milano (ch26) 15/3kW — M. Penice (ch23) 1800/360kW + 16 satellites — **Trentino-Alto Adige:** Paganella (ch21) 10/2kW + 20 satellites — **Veneto:** M. Venda (ch25) 1000/200kW + 16 satellites — **Friuli-Venezia Giulia:** Trieste (ch31) 25/5kW — Udine (ch22) 150/30kW + 7 satellites — **Liguria:** M. Beigna (ch32) 60/12kW — Portofino (ch29) 1000/200kW + 14 satellites — **Toscana:** M. Argentario (ch24) 250/50kW — M. Serra (ch27) 200/40kW — Monte Luco (ch23) 20/4kW + 16 satellites — **Marche:** M. Conero (ch26) 200/40kW — M. Nerone (ch33) 200/40kW + 16 satellites — **Umbria:** M. Peglia (ch31) 200/40kW + 8 satellites — **Lazio:** Roma (ch28) 150/30kW — M. Favone (ch29) 20/4kW + 7 satellites — **Abruzzo:** Pescara (ch30) 30/6kW + 6 satellites — **Campania:** M. Faito (ch23) 1400/280kW — M. Vergine (ch31) 15/3kW + 18 satellites — **Puglie:** Martina Franca (ch32) 700/140kW — M. Caccia (ch25) 500/100kW — M. Sambuco (ch27) 200/40kW + 19

satellites — **Calabria:** M. Scuro (ch28) 25/5kW — Gambarie (ch26) 200/40kW + 11 satellites — **Sicilia:** M. Cammarata (ch34) 200/40kW — M. Pellegrino (ch27) 40/8kW — M. Soro (ch32) 15/3kW — M. Lauro (ch24) 200/40kW + 17 satellites — **Sardegna:** M. Limbara (ch32) 20/4kW — M. Serpeddi (ch30) 250/50kW — Punta Badde Urbara (ch27) 200/40kW + 10 satellites.
Po: All st's H, exc. M. Faito, M. Argentario, Gorizia, M. Settepani, M. Ortobene, Gambarie, M. Pellegrino, Cagliari, Sassari, La Spezia, Teramo and Alghero: V.
D.Prgr: Sun 18.00-19.25, 21.00-23.30 (approx). W 21.00-23.15 (approx).
Ad: Nat. Prgr: 3.2%, 2nd Prgr: 2.2% of broadc. time — **TV sets:** 7.700.000 — **ALF:** Lire 12.000.-.

LUXEMBOURG

TELE LUXEMBOURG (Comm.)

Addr: Compagnie Luxembourgeoise de Télédiffusion, Villa Louvigny, Luxembourg. **L.P:** see radio.
Station (819 lines): Dudelange ch7 100/25kW H + 5 low power satellites. **D.Prgr:** 17.45 (Thurs, Sat, Sun 16.00)-21.30.
TV sets: 47.992 — **ALF:** B. frs. 192.-.

MALTA

BROADCASTING AUTHORITY MALTA

an independent Authority, to regulate and supervise radio and television broadc. in Malta with power to prescribe and produce prgr's — **Addr:** 12 Old Treasury Street, Valletta. **Cable:** Broadcasts. **Te:** Ce 21281 — **L.P:** see radio.

THE MALTA TELEVISION SERVICE LTD. (Comm.)

A subsidiary of Rediff. International Ltd., London (Priv. Comm.) **Addr:** P.O. Box 384, Gwardamanga. **Te:** Ce 25051. **Cable:** Television. **L.P:** Gen. Mgr: E. A. Hamilton-Hill, O.B.E. Mgr: W. A. Fenton. **Station:** ChE10 4.8/1.2kW H. **D.Prgr:** 17.30-21.30. **Fi:** Adv. revenue and contributions for certain prgr's prescribed by Malta Broadc. Authority.
TV sets: 45.000 — **ALF:** £4-0-0.

MONACO

TELE MONTE-CARLO (Comm.)

Addr: 16 Blvd. Princess Charlotte, Monte-Carlo. **Cable:** Tele-Carlo. **Te:** 305940. **L.P:** Dir. Gen: J. Frydman. Gen. Mgr: J. F. Micheo. Dir. Tec: R. Giraud. **Stations:** chF10 50/12.5kW H. **D.Prgr:** 17.30-22.00 Monoscope identification 14.00-17.00.
TV sets: 15.000.

NORWAY

See radio section. **TV sets:** 650.000 — **ALF:** N.Kr. 150,-.

POLAND People's Republic of

POLSKIE RADIO TELEWIZJA (Gov.)

Addr: Telewizja, Plac Powstanców 7, Warszawa. **Te:** 263093.
Cable: Telewar. **Telex:** 813421. **L.P:** Pres: W. Sokorski. Vice Pres: S. Stefanski. Vice Pres. Engineering: K. Kozlowski. Dir. Prgr: S. Stampń. Chief Eng: R. Dzwonik. Film Buyer: W. Jankowski. Head, Foreign Rel: T. Kedzierski.
Main Station: Pol. H (exc. where indicated); ch OIRT.

	ch	kW		ch	kW
Bydgoszcz	1	100/20	Poznan	9	100/20
Warszawa	2	100/20	Lublin	9	100/20
Zielone Góra	3	200/40	Krakow	10	200/40
Kielce	3	200/40	Gdansk	10	100/20
Olsztyn	6	8/1.6	Zgorzelec	11	0.17/0.034
Lódz	7	2.5/0.5	Wroclaw	12	123/25
Katowice	8	225/56	Szczecin	12	100/20
Koszalin	8	100/20	Rzeszów	12	100/20
Bialystok	8	100/20	Opole	10	0.6/0.12
Gizycko	9	1/0.2			

+ 50 low power satellites.
D.Prgr's: 08.00-10.00, 16.00-22.00.
TV sets: 3.000.000 — **ALF:** 480 Zlotys.

PORTUGAL

RTP-RADIOTELEVISÃO PORTUGUESA S.A.R.L. (Comm.)

Addr: Head Office: Rua de S. Domingos (à Lapa), 26 Lisboa.
Studio in Lisboa: Alameda das Linhas de Torres, 44. **Porto:** Mafamude Vila Nova de Gaia. **Cable:** Televisão. **Te:** 666134. **Telex:** 576 — **L.P:** Chmn. of the Board: Dr. J. Neves Duque. Asst. Gen. Mgr. (Prgr's): Eng. E. Matos Correia. Asst. Gen. Mgr. (Adm): Eng. F. X. Conceição. Dir. Prgr's: M. de Araújo. Dir. Tec: Eng. F. Bordalo Machado. Head of External Rel. Div: Dr. António Bivar.
Stations: chE: Lisboa 7 100/20kW H, Porto 9 100/20kW H, Lousa 3 60/12kW H, Montejunto 6 1/0.2kW H, Mendro 5 20/4kW H, Muro ch2 40/8kW V. **Relay st's:** Monchique ch8 15/3kW H, Marofa ch5 5/1kW H, S. Mamede ch10 5/1kW H + 13 low power st's. **D.Prgr:** Winter: 14.45 (Sat 17.00, Sun 12.15)-24.00. Summer: W 19.30-24.00; Sun 12.30-13.00, 18.30-24.00 — **Fi:** License payments and adv. — **TV sets:** 280.280 — **ALF:** Esc. 360.

ROMANIA

RADIODIFUZIUNEA SI TELEVIZIUNEA ROMANA (Gov.)

Addr: Str. Molière 2, Bucharest. **L.P:** see radio.
Stations (System OIRT — 625 lines): H.

Location	ch	kW	Location	ch	kW
Bacău	R1	0,6/0,4	Timişoara	R9	5/1,5
Bucuresti	R2	20/10	Iaşi	R9	5/1,5
Oradea	R3	20/6	Dobrogea	R10	4/1,5
Suceava	R4	20/6	Cluj	R11	4/1,5
Mureş	R5	5/1,5	Deva	R12	5/1,5
Bucegi	R6	20/6	Constanta	R8	0,4/0,1
Craiova	R8	20/6			

+ 37 low power repeater stations.
D.Prgr: Tues-Sat 15.30-21.00; Sun 07.00-11.00, 13.00-21.00. Prgr.II: Thur, Sat, Sun: 18.00-21.00.
TV sets: 577.000.

SPAIN

TELEVISION ESPAÑOLA (Gov.)

Addr: Apt. de Correos 26002, Madrid 11. **Te:** 2381333. Telex: 07694. **L.P:** Dir. Gen: J. A. Bernal. Vice Dir. Gen: L. Ezcurra C. Dir. Prgr. (1st Netw): J. de Los Casas. Dir. Prgr: (2nd Netw): S. Pons. Dir. Tec: E. Gavilán.
Stations: (System B)
1st Prgr:

Location	chE	kW(ERP)	Po	Location	chE	kW(ERP)	Po.
Madrid	2	250/50	H	Logroño	5	4/0.8	H
Vejer	2	3/0.6	V	Alpicat	5	3/0.6	H
Gomoniteiro	3	70/14	H	Mallorca	6	3/0.6	H
Alicante	3	60/12	H	Sierra de Lujar	7	200/40	H
Zaragoza	3	35/7	H	Matadeon	7	6.25/1.25	H
Barcelona	4	150/30	H	Burgos	8	13/2.6	H
Guadalcanal	4	120/24	H	Cadiz	8	1/0.2	H
Santiago	4	120/24	H	Villaseca	9	1.5/0.3	H
Sollube	4	60/12	H	Pena de			
Madrid	4	2/0.4	H	Francia	9	1.4/0.28	H
Valencia	5	10/2	H	Ceuta	11	7/1.4	H
La Guardia	5	5.6/1.1	H	Montanchez	11	3.5/0.7	H

D. Prgr: Mon-Fri 13.00-16.00, 18.00-23.00; Sat 13.00-24.00; Sun 09.30-23.00.

2nd Prgr.

Location	chE	kW(ERP)	Po.	Location	chE	kW(ERP)	Po.
Santiago	2	40/8	H	Barcelona	31	300/60	H
Madrid	21	100/20	H	Alicante	32	100/20	H
Bilbao	22	60/12	H	Zaragoza	33	250/50	H
Valencia	22	60/12	H	San Sebastian	48	100/20	H
Madrid	24	870/174	H	Sevilla	52	100/20	H

D. Prgr: 19.45-23.00 (Sat 24.00) — **TV sets:** 3.345.000.

SWEDEN

SVERIGES RADIO

Swedish TV, run by Sveriges Radio has the same non-comm, and official status as the broadc. service — **Addr:** Radiohuset, Oxenstiernsgatan 2, Stockholm. Postal Addr: Box 955, Stockholm 1. **Te:** 670865 (local 631000). **Cable:** Broadcast — **L.P:** Dir: Prgr I: H Onsgoord. Prgr II: O. Vallguist. Coordinator: H. Dyfverman. For other personalities: see radio.
The Central Administration of Swedish Telecommunications has the responsibility for the distribution of the prgr's produced by Sveriges Radio and has also charge of the collection of fees.
Addr: Box 16065, 103 22 Stockholm 16 — **L.P:** see radio.
Stations: chE; Po: H;

Name	ch	kW(ERP)	Name	ch	kW(ERP)
Hörby	2	100/20	Trollhättan	7	1/0.2
Orebro	2	60/12	Väddö	8	200/40V
Vännäs	2	60/12	Bäckefors	8	60/12
Uddevalla	2	5/1V	Emmaboda	8	60/12
Skövde	3	60/12	Haparanda	8	60/12
Sveg	3	60/12	Lycksele	8	30/6V
Boden	4	60/12	Mora	8	10/2V
Stockholm	4	60/12	Västerås	8	10/2
Ostersund	4	60/12	Ånge	8	15/3
Finnveden	4	3/0.6V	Gällivare	9	60/12
Arvidsjaur	5	60/12	Gävle	9	60/12
Norrköping	5	60/12	Göteborg	9	60/12
Sundsvall	5	60/12	Tasjö	9	60/12
Vislanda	5	5/1V	Visby	9	25/5
Karlstad	5	1/0.2V	Karlskrona	9	3/0.6V
Bollnäs	6	60/12	Hälsingborg	9	1/0.2
Kiruna	6	60/12	Linköping	9	1/0.2
Västervik	6	60/12	Borlänge	10	60/12
Skellefteå	6	10/2	Nässjö	10	60/12
Boras	6	3/0.6	Storuman	10	60/12
Uppsala	6	3/0.6	Malmö	10	1/0.2
Örnsköldsvik	6	3/0.6V	Varberg	10	1/0.2V
Halmstad	7	60/12	Kisa	11	30/6
Pajala	7	60/12	Östhammar	11	30/6
Sollefteå	7	60/12	Karlshamn	11	10/2
Sunne	7	60/12	Hörby	43	500/100
Motala	7	3/0.6	Örebro	48	500/100

+ 108 low power satellites.
TV st's to open before July 1st, 1969: 22 low power satellites.
D. Prgr: (School prgr's not included): Sun 12.00-14.00, 15.00-16.00, 17.15-22.00; Mon 13.00-15.00, 17.30-21.45; Tues 15.30-15.50, 18.00-21.00; Wed 13.00-15.15, 17.30-21.00; Thurs 18.00-21.30, 15.30-15.50, 17.00-21.35; Sat 13.00-22.30. Times are approx.
TV sets: 2.325.834 — **ALF:** Sv. Kr. 100, - (from April 1st: Sv. Kr. 180, - (incl. radio).

SWITZERLAND

SBC SWISS BROADCASTING CORPORATION

The SBC's Television programme services are an integral part of the Swiss Broadcasting Corporation.

Addr: SBC, Giacomettistrasse 1, 3000 Berne 16. **Cable:** Radif. **Te:** 031.44.55.55. **Telex:** 32.116 — **L.P:** TV Dir. at the headquarters of the SBC: Edouard Haas. Head of TV Coordination: F. R. Tappolet. Head of Technic: H. R. Züst. **Prgr. Sce. in German:** Reg. TV Dir. Dr. Guido Frei, Florastrasse 44, 8008 Zürich. **Te:** 051.47.68.00. **Prgr. Sce. in French:** Reg. TV Dir. René Schenker, 6 Place des Eaux-Vives, 1211 Genève. **Te:** 022.35. 90.60. **Prgr. Sce. in Italian:** Reg. TV Dir. Franco Marazzi, 6903 Lugano-Besso. **Te:** 091.3.20.21.

Stations: chE Po: H.

German Prgr:	ch	kW	French Prgr.	ch	kW
Bäntiger	2	100/20	La Chaux de Fonds	9	4.5/0.9
Uetliberg	3	100/20	Ravoire	9	1.8/0.5
Rigi	6	30/6	Bantiger	10	100/20
Säntis	7	15/5	Mt. Pelerin	11	3.5/0.7
Celerina	9	6/1.2	Rigi	32	130/26
Valzeina	10	5/1	+ 25 low power Boosters.		
St. Crishona	11	50/10	**Italian Prgr.**	**ch**	**kW**
Niederhorn	12	5/1	Mte. Cenci	5	4.5/0.9
+ 52 low power Boosters			Celerina	7	3/0.6
French Prgr.	**ch**	**kW**	Mte. S. Salvatore	10	10/2
La Dôle	4	144/28.8	+ 28 low power Boosters.		
H. Nendaz	7	3/0.6			
Les Ordons	7	6/1.2			

D. Prgr: German: Sun 09.00-21.30; Mon 17.15-21.15 (or 21.30); Tues 08.15-09.45, 17.15-21.30 (or 22.00); Wed 15.15-21.15 (or 21.30); Thurs 16.00-21.15 (or 21.30); Fri 13.15-15.00, 16.00-21.30; Sat 09.00-10.30, 13.00-22.00.

French: Sun 09.00-21.30 (or 22.00); W 16.00 (Tues/Fri 17.30, Sat 13.00)-21.30 (or 22.00).

Italian: Sun 09.00-11.15, 15.00-22.00; W 17.00 (Sat 13.00)-22.00.

Relay Facilities: A microwave link across the Alps. It runs from Gempen, near Bale (northern border) to Froburg-Bantiger-Jungfrau (12,200 ft) — Mt. Generoso (southern part of Switzerland) on the one side, and the German and Italian TV systems on the other side — A second microwave link runs from Uetliberg-Froburg-Bantiger-Romont-La Dôle. It has been extended to Cuiseaux for the programme exchange with France — Third link: Uetliberg-Säntis-Pfänder (Austria).

Fi: By the proceeds from the TV license-fees, divided between the SBC and PTT at the rate of 70:30 per cent and from February 1st, 1965 by the proceeds from commercial television: 15 minutes per weekday at the utmost in the early evening at the rate of 7900frs a minute — **TV sets:** 961.521 — **ALF:** Frcs 84,–.

U.S.S.R.

THE SOVJET TELEVISION (Gov.)

Addr's of the most important TV studios: Tsentralnaja studija televidenija Moskva, ul. Sjabolovka 53 (Dir: I. Inozemtsev) — Leningradskaja studija televidenija Leningrad ul. Malaja Sadovaja 2 — Kijevskaja studija televidenija Kijev, Krestjatik 24 — Minskaja studija televidenija Minsk, ul. Kalinina 6 — Rizjskaja studija televidenija Riga, ul. B. Nometnu 62 — Tallinskaja studija televidenija Tallin, ul. Krejsvalda 14 — Bakinskaja studija televidenija Baku. Parkovajaul — Tasjkentskaja studija televidenija Tasjkent, ul. Navoi 69 — Jerevanskaja studija televidenija Jerevan, pr. Ordzjonokidze 22 — Tbilisskaja studija televidenija Tbilisi pr. Rustaveli 12 — Vilnjusskaja studija televidenija Vilnius, studija televidenija — Alma-Atinskaja studija televidenija Alma-Ata, studija televidenija — Kisjinjovskaja studija televidenija Kisiinjov, studija televidenija.

Stations: Television Centres: Channel R. Def. 625. Po: H. Moscow ch 1 15/5kW — Moscow ch 3 7.5/3 kW — Moscow ch 8 (colour).

D. Prgr: Prgr. I (ch 1): 07.00-10.00, 14.00-21.00 (Sat/Sun 06.00-21.00) **Prgr. II** (ch 3): 15.00 (Sat 14.00, Sun 13.00)-20.00 (Sun 21.00) — **Prgr. III** (ch 8): Tues-Sat 08.35-09.00, 14.15-15.00 — **Prgr. IV** (ch 8): 16.30-19.00.

Location	chR	kW(ERP)	Location	chR	kW(ERP)
*Abakan	1	2/0.4	Tyumen	1	5/2
Aktyubinsk[12]	1		*Ufa I	1	5/2
*Armavir	1		Ust Kamenogorsk[12]	1	
*Ashkabad	1				
*Astrakan	1	5/2			
*Biysk	1	50/10	*Vladivostok	1	7/1.4
*Dushanbe	1		Voronezh[6]	1	
*Dzhezkazgan	1		*Yerevan	1	5/2
*Frunze	1		Andizhan[1]	2	
*Karaganda	1		Briansk[6]	2	
*Kazan	1	2/0.4	*Kalinin[6]	2	2/1
*Kiev II	1	1/0.2	*Kiev I	2	15/4
*Komsomolsk	1		Komsomolsk/Ivanovo	2	
Krivoirog[4]	1				
Kuldiga[8]	1		*Krasnoyarsk	2	
*Leningrad	1	15/4	Lugansk[4]	2	
*Lvov I	1		*Lvov II	2	
*Magadan	1		Nikolayev[4]	2	
*Minsk	1	5/2	*Novosibirsk	2	
Nalchik	1	5/2	*Petrozavodsk	2	5/2.5
*Norilsk	1		Pyatigorsk	2	
*Omsk	1	5/2	*Rubtsovsk	2	
*Perm	1		Ryazan[6]	2	
*Rostov/Don	1		*Tallinn I	2	15/4
Saratov	1		*Vilnius II	2	
*Sochi	1		*Yaroslavl	2	
*Tomsk	1	5/2	*Alma Ata	3	5/2.5

Location	chR	kW(ERP)	Location	chR	kW(ERP)
*Baku	3	5/2.5	*Volgograd I	4	
*Barnaul	3		Cherepovets	5	1/0.2
*Blagoveschensk	3	5/2	*Dnepropetrovsk	5	5/2
*Frunze II	3		Ivanovo[5]	5	
Gomel	3		Kemerovo	5	
*Gorkij	3	20/8	Kohtla Järve[7]	5	
*Grozny	3		Krasnodar	5	
Irkutsk	3		Liyepaya	5	
Izhevsk	3		Novomoskovsk	5	
*Khabarovsk	3	5/2	*Odessa	5	15/3
*Kharkov	3	7/3.5	Ordzonikidze	5	
*Kherson	3	2/0.4	Smolensk[6]	5	
Kirov	3		Ulyanovsk	5	
*Kishinev	3	15/4	Ventspils	5	
Konotop	3		Viljandi	5	
Kostrama[5]	3		Chernigov[4]	6	
*Kurgan	3	5/2	Orel	6	
Kuybyshev[4]	3		Tambov[6]	6	
*Leningrad II	3		Ussuriysk[11]	6	
Lutsk[4]	3		Zaporoshe[4]	6	
Magnitogorsk	3		*Baku II	7	
*Murmansk	3		Brest	7	
*Petropavlovsk	3		Chistopol	7	
*Riga I	3	5/2	*Klaipeda I	7	
*Sevastopol	3	7/3.5	Yoshkar Ola	7	
Simferopol[4]	3		*Klaipeda II	8	
*Sverdlovsk	3	5/2	Saransk	8	
*Tallin II	3	10/4	Tartu[8]	8	
*Tashkent	3	5/2.5	Tservayne[8]	8	
Ukhta	3		*Yerevan II	8	
*Ulan Ude	3		Birobidzhan[3]	9	
Vorkuta	3		Kursk	9	
Yuzhno Sakhalinsk	3		Leninsk	9	
			Lipetsk	9	
*Chelyabinsk	4		Pskov	9	
*Donetsk	4	15/3	Yelabuga	9	
*Kaliningrad	4		Beltsy[2]	10	
Kaluga[6]	4		*Riga II	10	
Narva	4		*Ufa II	10	
Novgorod[9]	4		*Volgograd II	10	
Pärnu[7]	4		Kohtla Järve[7]	11	
Penza[6]	4		Nizhnekamsk	11	
Salavat[10]	4		Shyaulyay	11	
*Tbilishi	4	5/2	Belgorod[6]	12	
*Vilnius I	4	15/3	Bratsk	12	
Vladimir[6]	4				

1) relays Tashkent; 2) relays Kishinev; 3) relays Khabarovsk; 4) relays Kiev; 5) relays Yaroslavl; 6) relays Moscow; 7) relays Tallinn II; 8) relays Riga; 9) relays Leningrad; 10) relays Ufa; 11) relays Vladivostok; 12) relays Alma-Ata — *) TV centre — **TV sets:** 19.000.000.

YUGOSLAVIA

RADIO TELEVISION YOUGOSLAVE

Addr's: Radiotélévision Yougoslave: 70, B. Kidrica. Beograd. **Te:** 43-693. **Telex:** 11-469 Yu jurate, Beograd — **Radiotélévision Beograd:** Takovska 10. **Te:** 342-001. **Telex:** 11-488 — **Radiotélévision Zagreb:** 6, Dežmanov prolaz, Zagreb. **Te:** 37-251. **Telex:** 21.477 — **Radiotélévision Ljubljana:** 17, Tavčarjeva, Ljubljana. **Te:** 311-922. **Telex:** 31-118 — **Radiotélévision Sarajevo:** Danijela Ozme 7, Sarajevo. **Te:** 26-505. **Telex:** 41-224 — **Radiotélévision Skopje:** Dolno Nerezi, Skopje. **Te:** 35-230. **Telex:** 51-157 — **Radiotélévision Titograd:** IV Proleterske brigade 2, Titograd. **Te:** 22-423. **Telex:** 61133.

L.P: Radiotélévision Yougoslave: Pres. Adm. Com: V. Savić. Secr. Gen: Dr. I. Pustišek, Head For. Rel: Mrs. O. Vojvodić. Pres. Prgr. Com. TV: D. Ilić. Secr. Prgr. Comm. TV: M. Milosavljević. Pres. Techn. Com: Eng. R. Galić — **Radiotélévision Beograd:** Dir. Gen: Z. Vuković. Dir. TV: D. Ilić. Chief Editor TV: A. Stefanović. A. Vitorović. Dir. Tec. Eng: R. Zižić — **Radiotélévision Zagreb:** Dir. Gen: I. Bojanić. Dir. TV: T. Golubović. Chief TV Prgr: M. Vojković. Editor TV: I. Kocon. J. Mišković. **Radiotelevision Ljubljana:** Dir. Gen: M. Merčun. Dir. TV: D. Fortič. Chief Editor TV: V. Stempihar. A. Pavček. Dir. Tec. Eng. S. Pernuš. **Radiotelevision Sarajevo:** Dir. Gen: V. Savić. Dir. TV: D. Kecman. Chief Editor TV: A. Nuhbegović. J. Krstanović. Dir. Tec: A. Stefanović. **Radiotelevision Skopje:** Dir. Gen: M. Matevski. Dir. TV: I. Toševski. Chief Editor TV: S. Ivanovski. Dir. Tec: for Transmitters and Links: Eng. B. Ončevski. **Radiotelevision Titograd:** Dir. Gen: M. Perović. Chief TV Prgr: A. Selhanović. Chief Editor TV: R. Rotković. Dir. Tec: Eng. Lj. Kosović.

Serbia	ch	kW(ERP)	Croatia	ch	kW(ERP)
Kopaonik	3	50/10	Učka	11	100/20
Jastrebac	5	100/20	+ 13 low power repeaters.		
Subotica	5	35/7	**Slovenia**		
Avala	6	100/20	Kum	3	50/10
Goles	7	35/7	Krvavec	5	50/10
Ovcar	8	8/1.6	Nanos	6	35/7
Crveni Cot	10	100/20	Plešivec	6	35/7
Tupiznica	10	35/7	Pohorje	11	10/2
Crni Vrh	11	35/7	Ljubljana-Krvavec	21	5/1
+ 24 low power repeaters.			+ 62 low power repeaters.		
Croatia			**Bosnia/Herzegovina**		
Labistica	4	15/3	Bjelasnica	5	1/0.2
Psunj	4	100/20	Kozara	6	10/2
Srdj	6	5/1	Hum	8	10/2
Celevac	8	50/10	Vlašic	11	100/20
Sljeme	9	100/20	+ 48 low power repeaters.		
Biokovo	11	100/20			

Macedonia	ch	kW(ERP)	Montenegro	ch	kW(ERP)
Crni Vrh	6	50/10	Lovćen	8	67/13.5
Mali Vlaj	9	3/0.6	Bjelasica	12	16.8/3.36
Velister	4	1.5/0.3	+ 22 low power repeaters.		
Curtel	11	2.5/0.5			

+ 15 low power repeaters.
D. Prgr: Sun 09.25-22.35, Mon 09.35-11.30, 14.45-23.15, Tues 09.35-11.30, 14.45-22.35, Wed 09.35-11.30, 17.20-21.55, Thurs 09.35-11.30, 14.45-22.40, Fri 09.35-12.00, 14.45-23.50, Sat 09.35-11.00, 18.00-23.10.
The above timings are given with regards to the general prgr scheme. Television st's (Beograd, Zagreb, Ljubljana, Sarajevo, Skopje, Titograd) combine their regional prgr's and have their own schemes. Most of their prgr's are broadcast over the joint JRT network — **Test tr's:** W one h before tr's.
Fi: By license payments — **Ad:** 170 min's pr. week — **TV sets:** 1.199.376 — **ALF:** N Din 240, .

AFRICA

AFARS & ISSAS

OFFICE DE RADIODIFFUSION TELEVISION FRANCAISE (Gov.)

Addr: B.P. 97, Djibouti. **L.P:** see radio.
Station (System K'): Djibouti chK5 0.05kW H. **D.Prgr:** 16.00-19.00
TV sets: 1.000,–.

ALGERIA

TELEVISION ALGERIE (Gov.)

Addr: 21 Blvd des martyrs, Alger. **L.P:** Dir. TV: M. Zitouni; for other personel: see radio. **Stations** (Def. 819 lines syst. E): Algiers ch11 20kW H d, Oran ch 28 12.5/1.25kW H, Tizi-Ouzou ch F 0.1/0.025kW *(repeats ch 11 Algiers)*, *Chréa ch 6 (satellite)* 5/1.25kW H. Oran ch 12 5/1.25 kW H, Constantine/Kef-el-Akhal (Syst. B, 625 lines, CCIR): ch 7 100/25kW H.
D. Prgr's: 18.00-23.00. **TV sets:** 83064 — **ALF:** DA 85,–.

CANARY ISLANDS

TELEVISION ESPAÑOLA EN CANARIAS

Addr: Valentin Saenz 4, pisos 5 & 6, Santa Cruz de Tenerife. **Te:** 244187
L.P: Dir: D. M. de Zavala Castella. **Stations:** Santa Cruz de Tenerife chE 3 350/70 H, Las Palmas (relay) chE 6 60/12W H. **D. Prgr:** 14.00-15.30, 18.15-24.00.

CONGO (Dem. Rep. of)

RADIO TELEVISION NATIONAL CONGALAISE (Gov. Comm.)

Addr: see radio — **D. Prgr:** Started operation early 1967 (18.10-21.00). No further details available **TV sets:** 7.000.

TV COLLEGE 9Q2AC (Priv.)

Addr: B.P. 7074, Lubumbashi. **Te:** 5303. **L.P:** Dir: J. Dethier.
Station (System K'): ch 9 0.015kW. **D. Prgr:** D. exc. Tues 17.30-20.00 — **ALF:** 10 Zaires.

CONGO (Rep.)

RADIODIFUSION TELEVISION CONGOLAISE

Addr: B.P. 2241, Brazzaville. **L.P:** Dir. G. Bikouta-Menga. Dir. Tec: A. Ondongo. **Station** (System K' 625 lines, OIRT): ch 9 2kW H.
D. Prgr: Mon-Fri 16.00-17.30 (for schools), D 17.30-20.00. **TV sets:** 1.000 — **ALF:** CFA 6000,–.

EGYPT

U.A.R. BROADCASTING CORPORATION OF CAIRO

Addr: TV Bldg, Cornish Rd, Cairo: **Te:** 812070. **Cable:** Kahivision.
L.P: Chmn: M. A. Hammad. Dir. Prgr's: S. Labib. Contr. Foreign Rel: H. Essamra.
Stations: chE; (CCIR Standard).

	ch	kW			ch	kW	
Cairo I	5	100/20	H	El-Minya	8	160/32	V
Cairo II	7	20/4	H	Assuit I	10	50/10	H
Cairo III	9	20/4	H	Sohag	7	50/10	H
Alexandria I	6	25/5	H	Beni Suef	11	80/16	V
Alexandria II	11	24/4.8	H	Beni Ali	6	8/1.6	V
Mansoura	8	25/5	H	Quena	9	5/1	H
Tanta	10	135/27	H	Luxor	11	10/2	H
Assuan	5	5/1	H	Nagh Hamadi	5	5/1	H
Port Said	3	10/2	H	Esna	5	5/1	H
Kassassin	9	6/1.2	H	Edfo	8	5/1	H
Ismailia	6	6/1.2	V	Komombo	10	5/1	H
Suez	9	6/1.2	H				

1st Prgr: 15.00 (Fri 09.00)-22.00; **2nd Prgr:** (Cairo II, Alexandria II, Tanta): 17.00-22.00; **3rd Prgr:** Cairo III: 17.00-21.00. **Fi:** by license payments state subsidy and adv.
TV sets: 500.000 — **ALF:** £(Egypt) 6/0/0.

ETHIOPIA

ETHIOPIAN TELEVISION SERVICE (Gov.)

Addr: P.O. Box 1020, Addis Ababa. **Te:** 16701. **Cable:** Ethiotv.
L.P: Gen. Mgr: A. N. Haptewold. Dir. Tec. B. J. Roche. **Station:** chE7 0.5/0.1kW. **D. Prgr:** 17.00 (Sat 14.30)-19.30. For schools: Mon-Fri 08.00-10.30
TV sets: 7.000 — **ALF:** Eth $ 50.00.

GABON

RADIODIFFUSION TELEVISION GABONAISE (Gov.)

Addr: B.P. 150, Libréville. **Te:** 3325. **Cable:** Radiotelegabon.
L.P: Dir. TV See: J. Adiahenot. **Stations:** System K' (625 lines): Libréville ch4 0.05/0.01kW H, Port Gentil ch8 0.05/0.01kW H. **D. Prgr:** ch4 D. exc. Mon 18.45-21.15, ch8 D. exc. Tues 18.45-21.15. **TV sets:** 1200.

GHANA

GHANA BROADCASTING CORPORATION

Addr: P.O. Box 1633, Accra. **L.P:** see radio.
Stations (System B 625 lines): Kissi chE2 5/1kW H, Jamasi chE3 5/1kW H, Adjankote chE4 5/1kW H, Tamale chE5 0.5/0.1kW H, Ho (relay) chE5 3/0.6W H.
D. Prgr's: 17.55 (Sun 16.00) – 22.50. For schools: 10.00-12.00.
TV sets: 10.000 — **ALF:** £5/0/0

IVORY COAST

TELEVISION IVORIENNE (Gov. Comm.)

Addr: B.P. 2261, Abidjan. **Te:** 49644. **Cable:** TRI. **L.P:** see radio.
Stations (System K'625 lines): Abidjan chK'8 10/2.5kW H, Bouaflé chK'9 10/2.5kW V, Man chK'7 10/2.5kW H, Koun chK'4 10/2.5kW V. **D.Prgr:** 12.30-13.00, 19.15-22.00 — **TV sets:** 6.500

KENYA

VOICE OF KENYA TELEVISION (Gov. Comm.)

Addr: Box 30456, Nairobi. **Te:** 26653. **L.P:** see radio.
Stations: chE4 (Nairobi) 15/3kW H. **Relay st:** chE2 (Kisumu) 0.5/0.1kW. **D.Prgr:** 14.30 (Sun 14.00)-19.30 in English/Swahili.
TV sets: 14.500 — **ALF:** £3/0/0.

LIBERIA

LIBERIAN BROADCASTING CORPORATION (Gov. Comm.)

Addr: P.O. Box 594, Monrovia. **Te:** 22011. **L.P:** see radio.
Station: EL-TV chE6 2.5/0.45kW **D. Prgr's** 18.30-23.00.
TV sets: 4.000.

MAURITIUS

MAURITIUS BROADCASTING CORPORATION (Comm.)

Addr: Broadcasting House, Forest Side. **L.P:**
Stations: Malherbes chE4 5/1kW H, Port Louis *chE7 0.3/0.06kW H, Souillac *chE9, Flacq *chE11 — *) Satellite.
D. Prgr: 14.30-18.00
TV sets: 11.000 — **ALF:** 40 rupees.

MOROCCO

RADIODIFFUSION TELEVISION MAROCAINE (Gov.)

Addr: 1, rue Al Brihi, Rabat. **L.P:** see radio.
Stations: Rabat chM7 180/36kW H, Casablanca chM10 180/36kW H, Zerhoun chM4 180/36kW H, Marrakech chM6 36/7.2kW H, Cap Spartel chM5 36/7.2kW H, Khouali chM5 36/7.2kW H, Tazekka chM8 0.3/0.06kW H + 5 low power st's
D. Prgr: 19.00-24.00. **French:** 20.00-21.00. **Arabic:** 19.00-20.00, 21.00-24.00.
TV sets: 85656 — **ALF:** DH 30 (Public 70)

NIGERIA

NBC-TELEVISION (NTS-Gov. Comm.)

Addr: Television House, Victoria Island, Private Mail Bag 12005, Lagos. **Te:** 26391. **Cable:** Nivision. **L.P:** Asst. Chief Eng: J. S. Sotunde. Contr. Prgr's: S. Olusola. Sales Mgr: B. Oviagele.
Station: Lagos chE10 40/8kW H, Ibadan chE2 6/1.2kW H — **D. Prgr's:** 17.30-23.00. **Fi:** By state and comm. revenue. **Ad:** 10% of broadc. time.
TV sets: 52.526 — **ALF:** £2/10/0.

RADIO KADUNA TELEVISION (RKTV)

Addr: RKTV, Box 250, Kaduna, No. Nigeria. **Te:** 2294. **Cable:** Radionorth. **L.P:** see radio. **Stations:** Jaji chE4 48kW H, Kano chE10 25kW H. **D. Prgr:** 17.30-21.30.

WESTERN NIGERIA RADIOVISION SERVICE

Addr: P.O. Box 1460, Ibadan. **L.P:** see radio. **Stations:** Abafon (Lagos) chE3 60/12kW H, Ibadan chE4 1.5/0.3kW H.
D. Prgr: 16.30-21.45 (or 22.15): Schools 10.00-10.30, 12.00-13.00.
F.Pl: Ibadan chE4 50/10kW H.

REUNION

OFFICE DE RADIODIFF. TELEVISION FRANÇAISE (Gov.)

Addr: B.P. 309, St. Denis. **L.P:** Dir. Tec: R. Varennes.
For other personnel: see radio. **Stations** (System K'625 lines): St. Denis chK8, Le Port chK4, St. Suzanne chK5, Piton Textor chK9, Piton Hyacinthe chK7, St. Leu chK6, St. Joseph chK4, St. Benoit chK7 (all 0.1/0.05kW H). **D. Prgr:** 15.00-18.00.
TV sets: 13.000 — **ALF:** N. Frs. 100.00.

RHODESIA

RHODESIA TELEVISION LIMITED.

Addr: P.O. Box HG 200, Highlands, Salisbury. **L.P:** Man. Dir: J. Terry. Head of Eng: P. L. E. Bennett. Adm. Officer: M. A. Conroy.

Stations: Salisbury chE4 20kW. Bulawayo chE3 3kW. **D.Prgr:** D 15.30-20.40.
TV sets: 45.000 — **ALF:** £6/0/0.

SENEGAL

SENEGAL TELEVISION (Gov.-Educ.)

Addr: Projet-Pilote, Centre for Mass. Inf. & Educ. (UNESCO). B.P. 2375, Dakar. **Te:** 23489. **L.P:** Dir: Ch. Fall. Dir. of Projet-Pilot: I. Ba. Dir. Tec: A. N. Diaye.
Station (625 lines): Dakar ch III 0.05kW H.
D.Prgr's: Mon, Tues, Wed, Thurs 17.00-17.30. Twice a month Fri 21.00-22.15. **F.Pl:** A fourth prgr. consisting of a twice weekly French literary series — **TV sets** in use: 500.

SIERRA LEONE

SIERRA LEONE TELEVISION (Gov, Comm.)

Addr: Private Mailbag. Freetown. **Te:** 3997. **L.P:** Ag. Gen. Mgr. & Chief Eng: A. H. Khanu. Film Buyer: C. A. Thomas.
Station: chE2 0.4/0.1kW H. **D. Prgr:** W 18.30-23.00, Sun 14.00-15.00, 18.30-23.00.
TV sets: 3.000.

SUDAN

SUDAN TELEVISION SERVICE (Gov, Comm.)

Addr: P.O. Box 1094, Omdurman. **Te:** 52100. **Cable:** Irshad — **TV.**
L.P: Dir: S.A.M. Shummo. Dir. Tec: R. Mirghani. **Station:** chE5 1.5kW H. **D. Prgr:** 16.30-20.30.
TV sets: 20.000.

TUNISIA

RADIODIFFUSION-TELEVISION TUNISIENNE (Gov.)

Addr: 71, Ave. de la Liberté, Tunis. **Te:** 259311. **L.P:** Dir. Tec: M. Chaffai. **Stations:** (CCIR 625 lines): Zaghouan chE11 10kW H, Boukornine I chE7 05kW. V, Boukornine II chE5 0.2kW V, Bizerte chE6 10kW H; **Projected** Ain-Draham chE7 2kW H, Beja chE9 2kW H, Sfax. **D. Prgr:** 16.30-20.00
TV sets: 37.000 — **ALF:** Din. 5.–.

UGANDA

UGANDA TELEVISION SCE

(Comm. — operated by Ministry of Inf. Broadc. and Tourism).
Addr: P.O. Box 4260, Kampala. **Te:** 54461. **L.P:** Dir: R. Coulter. Ag. Chief Eng: A. R. Aldrige.
Stations: Kampala chE5, Lira chE7, Masaka chE8, Mbale chE8, Mbarara chE10, Soroti chE10 (all 55kW H). **D. Prgr:** 12.00-20.00.
TV sets: 9000 — **ALF:** East African sh: 5/-

UPPER VOLTA

VOLTA VISION (Gov.)

Addr: B.P. 511, Ouagadougou. **Te:** 22641. **L.P:** see radio.
Station (System D 625 lines): Ouagadougou ch6 0.75/0.15kW V.
D. Prgr: irregular. **Projected:** Koudougou 1kW H, Bobodioulasso 1kW H — **TV sets:** 5000.

ZAMBIA

TELEVISION ZAMBIA (Gov. Dept.)

ADDR: Broadc. House, P.O. Box RW 15, Lusaka. **Te:** 72986; P.O. Box 1100, Kitwe. **Te:** 3507. **Cable:** Broadcasts. TV. **L.P:** Dir: A. Nkhata. Contr. TV: G. J. Wykes. Chief Eng: J. Allerton. Head of Operations: N. Jere. **Stations:** Lusaka chE3 0.8/0.16kW H, Kitwe chE4 13.6/2.7kW H, Kabwe chE2 0.3/0.06kW.
D. Prgr's: 15.00-20.30. **Educ. Prgr's** (school terms only): 09.45-11.00 (Kitwe).
TV sets: 17.500 — **ALF:** £5/0/0.

ASIA

CAMBODIA

R. CAMBODGE TELEVISION (Gov.)

Addr: 28. Ave. Preah Mohaksatryany Kossomak, Phnom Penh.
L.P: see radio. **Stations:** chA8 5/1kW H, Bokor chA11 100/25W (rel).
D. Prgr: Tues, Thurs, Sat 11.00-13.00.
TV sets: 25.000.

CHINA (Peoples' Rep. of)

Stations: Peking	Vision MHc	Sound MHc	Stations:	Vision MHc	Sound MHc
1st Prgr.	57.75	64.25	Canton	57.75	64.25
2nd Prgr.	77.25	83.75	Sian	49.75	56.25
Shanghai	93.25	99.75	Taiyuan	49.75	56.25
Tientsin	77.25	83.75	Hofei	85.25	91.75
Harbin	49.75	56.25	Nanking	49.75	56.25
Shenyang	93.25	99.75	Wuhan	93.25	99.75
Changch.	57.75	64.25			

Relay st's: Hangchow** 57.75/64.25MHz, Soochow** 57.75/64.25 MHz, Tangshan* chR4, Wusih** 57.75/64.25MHz.
* = repeating Peking; ** = repeating Shanghai; Peking I: 5/2.5kW H.
Experimental st's; Ansham, Changsha, Chengtu (all 57.75/64.25MHz) Chiamussu chR1, Foochow chR5, Fushun chR1, Hekang chR4, Kirin chR1, Kweiyang chR5, Lanchow chR1, Tsinan chR3, Tsitsihar 57.75/64.25MHz — **NB:** No recent information available.

CHINA (Rep. of Taiwan)

NATIONAL EDUCATIONAL TV-STATION (Gov.)

Addr: 41 Nan-hai Rd. Taipei. **Te:** 36166. **L.P:** St. Dir: Prof. C. C. Liu. Dir. Tec: S. Y. Chang. Dir. Prgr: C. T. Wan.
Station: BET31 chA 11 4/2kW. **D. Prgr:** 05.00-08.00. Planned 8 low-powered repeater st's.

TAIWAN TELEVISION ENTERPRISE (Comm.)

Addr: 990 Chung Cheng Rd, Taipei. **Te:** 779171. **Cable:** Television.
L.P: Pres: Th. S. Chou. Vice Pres: W. Y. Lee. Dir. Eng. Dept: R. I. C. Huang. Dir. Prgr: Y. M. Ho.
Stations: BET 21 chA7 70/14kW (No. Taiwan), BET22 chA12 70/14kW (Ce. Taiwan), BET23 chA7 14/12kW (So. Taiwan). **D. Prgr:** W 04.30-06.00, 09.30-15.30; Sun 04.30-15.30
TV sets: 240.000 — **ALF:** NT$ 60,–.

HONG KONG

REDIFFUSION TV HONG-KONG (Comm.)

Addr: P.O. Box 121, Hong Kong. Closed circuit 405 line netw. **L.P:** see radio. Two simultaneous wired netw's.
D. Prgr: Chinese 10.00-15.00. English 09.00 (Sat/Sun 06.00)-15.30
TV sets: 110,000 — **ALF:** HK $ 36.00

INDIA

ALL INDIA RADIO — TELEVISION (Gov.)

Addr: Television Centre, All India Radio, Akashwani Bhawan, 5th Floor, Parliament St. New Delhi-1. **Te:** 382021 **Cable:** Durdarshan.
L.P: Dir: S. N. Murti. Eng-in-Charge: C. R. Krishnamurthy — **Stations:** New Delhi chE4 5/1kW H.
D. Prgr (Gen. Sce): 14.00-16.00 includes bi-weekly prgr's for agriculturists. For schools: One and a half hours each working day. For schools: May-March: Lessons in Chemistry and Physics for Higher Secondary Classes. Lessons in General Science for class 7th and 8th; lessons in English; lessons in Biology for class 6th, 7th and 8th; and lesson in Social Studies for class 8th only. Besides, Teachers Training Prgr's in English and Science, at least once a month. **Pub:** School Television Pamphlet (English) annual.
F.Pl: St's at Bombay, Calcutta, Madras & Kampur — **TV sets:** 6.500 — **ALF:** Rs 30, (for Schools & Teleclubs Rs 10,–).

INDONESIA

TV REPUBLIK INDONESIA (Gov.)

Addr: Jajasan Televisi RI, Senajan, Djakarta. **Te:** 582160. **Cable:** Telviri. **L.P:** Gen. Mgr. & Dir. Adm: Drs. Sumadi. Dir. of Prgr: S. Darjopranoto. Chief Engineer: Ir. Sumartono. **Stations:** Djakarta chE9 10/2kW H, Jogjakarta chE8 5/1kW H, Bandung chE7 1/0.2kW H, Semarang chE4 1/0.2kW H. **D. Prgr:** 11.00-15.30 (Sat 16.30).
Ad: 24 mins daily.
TV sets: 70265 — **ALF:** Rp. 1200,–.

IRAN

TELEVISION OF IRAN (Comm.)

Addr: Box 1015. Tehran. **Te:** 621101. **Cable:** Telviran
L.P: Owner: H. Sabet. Man. Dir: P. Patovi. Dir. Tec: D. Linford. Mgr. Public Rel: F. Esfandiary. Mgr. Programming: Mrs M. Ramzi.
Stations: Teheran chA3 4/0.8kW H, Abadan chA3 12/2.4kW, Ahwaz chA12 0.5kW (rel. Abadan). **D. Prgr's:** 14.30-20.00.
TV sets: 150.000.

IRAQ

BAGHDAD TELEVISION (Gov.)

Addr: Ministry of Guidance. Broadc. House, Salhiya, Baghdad. **Station:** Salhiya chE8 5/1kW H.
D. Prgr: 08.00-09.00, 15.00-21.00. **Projected st's** (repeaters): Basra, Kiruk, Mosul — **TV sets:** 175.000.

ISRAEL

ISRAEL BROADCASTING AUTHORITY

Addr: P.O. Box 1082, Jerusalem. **Stations:** 5 st's (1 × 10kW, 3 × 2kW, 1 × 0.5kW) planned to start on channels 8, 9, 10 and 11 early 1969
TV sets: 45.000 — **ALF:** Fl 57.50.

INSTRUCTIONAL TELEVISION TRUST (Educ.)

Addr: 14, Klausner St, Tel-Aviv. **Te:** 41455. **Cable:** Telemudit.
L.P: Gen. Mgr: M. Rowe. Dir. Tec: Dr. Y. Peless. Asst. to Gen. Mgr: Dr. D. Jeselsohn. **Station** (CCIR system B): Eitanim chE8 20kW H.
D. Prgr: Sun-Fri 08.00-18.30.

JAPAN

NIPPON HOSO KYOKAI (Corporation, non Gov, non Comm.)

Monocrome and Color-TV:
Stations: As of October 1st, 1968, there is a total of 1425 st's: 714 for General TV netw, and 711 for the Educational TV netw.
Call: JO-TV — **Po:** H and V — **Ch:** J — **Def:** 525.
Color-TV: 710 st's for General netw. and 707 for Educational netw.
System: NTSC. 1) = General Sce. 2) = Educ. Sec.

Call	ch	kW/W	Call	ch	kW/W	Call	ch	kW/W
°) **Sapporo**			**Hakodate**			**Asahikawa**		
1) IK	3	10	1) VK	4	1	1) CG	9	1
2) IB	12	10	2) VB	10	1	2) CC	2	1

Call	ch	kW/W
Shirekoma		
1) —	9	250W
2) —	2	250W
Nayoro		
1) —	4	250W
2) —	12	250W
Obihiro		
1) OG	4	1
2) OC	12	1
Kushiro		
1) PG	9	1
2) PC	2	1
Nakashibetsu		
1) —	4	250W
2) —	12	250W
Kitami		
1) KP	3	1
2) KD	12	1
Muroran		
1) IU	9	1
2) IT	2	1
*) **Sendai**		
1) HK	3	10
2) HB	5	10
Akita		
1) UK	9	5
2) UB	2	5
Yamagata		
1) JG	8	3
2) JC	4	3
Tsuruoka		
1) JP	3	1
2) JD	6	1
Morioka		
1) QG	4	3
2) QC	8	3
Kamaishi		
1) —	2	250W
2) —	12	250W
Kitafukuoka		
1) —	5	250W
2) —	12	250W
Fukushima		
1) FP	9	3
2) FD	2	3
Wakamatsu		
1) —	1	1
2) —	3	1
Aomori		
1) TG	3	5
2) TC	5	5
Hachinohe		
1) —	9	500W
2) —	7	500W
*) **Tokyo**		
1) AK	1	50
2) AB	3	50
Nijima		
1) —	52	300W
2) —	50	300W
Kofu		
1) KG	1	3
2) KC	3	3

Call	ch	kW/W
Fujiyoshida		
1) —	9	250W
2) —	2	250W
Nagano		
1) NK	2	1
2) NB	9	1
Iida		
1) —	4	250W
2) —	3	250W
Niigata		
1) QK	8	5
2) QB	12	5
Nagoya		
1) CK	3	10
2) CB	9	10
Shizuoka		
1) PK	9	1
2) PB	2	1
Hamamatsu		
1) DG	4	1
2) DC	8	1
Kanazawa		
1) JK	4	3
2) JB	8	3
Fukui		
1) FG	9	3
2) FC	3	3
Toyama		
1) IG	3	3
2) IC	10	3
*) **Osaka**		
1) BK	2	10
2) BB	12	10
Hikone		
1) —	48	300W
2) —	45	300W
Fukuchiyama		
1) —	49	300W
2) —	46	300W
*) **Hiroshima**		
1) FK	3	10
2) FB	7	10
Fukuyama		
1) DP	1	1
2) DD	7	1
Okayama		
1) KK	5	10
2) KB	3	10
Matsue		
1) TK	6	1
2) TB	12	1
Hamada		
1) —	2	500W
2) —	9	500W
Tottori		
1) LG	3	1
2) LC	4	1
Yamaguchi		
1) UG	9	1
2) UC	1	1
Matsuyama		
1) ZK	6	5
2) ZB	2	5

Call	ch	kW/W
Nihama		
1) ZQ	2	250W
2) —	4	250W
Yawatahama		
1) —	8	250W
2) —	2	250W
Kochi		
1) RK	4	1
2) RB	6	1
Nakamura		
1) —	1	250W
2) —	11	250W
Tokushima		
1) XK	3	1
2) XB	38	10
Kumamoto		
1) GK	9	1
2) GB	2	1
Minamata		
1) —	4	500W
2) —	1	500W
Fukuoka		
1) LK	3	10
2) LB	6	10
Izuhara		
1) —	5	300W
2) —	11	300W
Kurume		
1) —	46	300W
2) —	54	300W
Gonoura		
1) —	59	300W
2) —	56	300W
Kitakyushu		
1) SK	6	1
2) SB	12	1
Nagasaki		
1) AG	3	1
2) AC	1	1
Sasebo		
1) AT	8	1
2) AY	2	1
Kagoshima		
1) HG	3	5
2) HC	5	5
Naze		
1) —	3	250W
2) —	4	250W
Setouchi		
1) —	6	500W
2) —	10	500W
Miyazaki		
1) MG	8	1
2) MC	12	1
Nobeoka		
1) —	4	250W
2) —	2	250W
Oita		
1) IP	3	3
2) ID	12	3
Imari		
1) —	51	300W
2) —	53	300W

+ 1293 st's below 250W not mentioned. **D. Prgr:** Gen. TV: 21.00-15.00. **Educ. TV:** 21.00-15.00. **Color TV:** Gen. TV and Educ. TV: 10.30 hrs (daily).
TV sets: 20.610.000 — **ALF:** B & W TV: 3780 Yen, Color TV: 5580 Yen.

PRIVATELY OWNED COMMERCIAL TV-STATIONS
Call: JO-TV chJ — All st's with colour facilities: 525 lines
D. Prgr: General (approx) W: 23.00-24.00 or from 02.00-05.00, 08.00-15.00. Sun approx. 23.00 (or from 00.00-15.00).

Call	ch	kW	Name
1) HR	1	10/2.5	Hokkaido Broadc. Comp, Sapporo:
1) —	1	1/0.25	21.50-14.50
2) FX	1	10/2.5	Tokai Television Broadc. Co, Nagoya: 21.00-16.00
3) EL	1	1/0.25	Tsuruoka
4) IR	1	10/2.5	Tohoku Broadc. Co, Sendai
5) LR	1	3/0.75	Kita-Nihon Broadc. Co, Toyama
6) IF	1	10/2.5	Kyushu Asahi Broadc. Co, Fukuoka
7) CF	1	5/1.25	R. Minami-Nihon Broadc. Co, Kagoshima
8) RJ	1	1/0.25	Shikoku Broadc. Co, Tokushima
9) GR	1	5/1.25	R. Aomori Broadc. Co, Aomori: 21.45-14.00 (Sat 16.30)
10) JR	1	1/0.25	Shikoku Broadc. Co. Ltd, Shikoku
11) JX	1	1/0.25	Nihon-Kai Telecasting Co, Tottori
12) AX	4	50/12.5	Nippon TV-Network Co, Tokyo: 21.40-15.00 (Sat 16.30)
13) FR	4	10/2.5	RKB Mainichi Broadc. Co, Fukuoka: 22.00-15.00
14) OR	4	10/2.5	MBS Mainichi Broadc. System, Osaka: 21.30-16.00
15) ER	4	10/2.5	R. Chugoku Broadc. Co, Hiroshima: 21.50-15.00
16) PM	4	100/25W	Yamaguchi Broadc. Co, Shimonoseki
17) AR	5	10/2.5	Chubu-Nippon Broadc. Co, Nagoya: 21.55-16.45 (Sun 22.30-15.30)
18) DR	5	5/1.25	Broadc. System of Niigata, Niigata
19) KX	5	10/2.5	Sapporo TV Broadc. Co, Sapporo
20) JF	5	3/0.75	Yamanashi Broadc. System, Kofu
21) GF	5	3/0.75	R. Oita Broadc. Co, Oita
22) UR	5	1	Nagasaki Broadc. Co, Nagasaki
23) DF	6	3/0.75	Iwate Broadc. Co, Morioka: 21.59-07.25, 07.55-14.45
24) KR	6	50/12.5	Tokyo Broadc. System: 21.15-17.12 (22.20-16.25)
25) NR	6	10/2.5	Asahi Broadc. Corp, Osaka: 21.00-15.30
26) MR	6	3/0.75	Hokuriku Broadc. Co, Kanazawa
27) VO	6	1/0.25	Hamamatsu
1) QL	6	1/0.25	Kushiro
1) HO	6	1/0.25	Hakodate
1) HW	6	1/0.25	Obihiro
28) PY	6	1/0.25	Wakamatsu
19) KY	7	1/0.25	Asahikawa
19) LY	7	1/0.25	Muroran
19) SY	7	1/0.25	Kushiro
29) DX	8	100/25	Kansai Telecasting Corp, Osaka: 21.30-15.55 (Sat 16.30)
13) FO	8	1/0.25	Kita-Kyushu
30) CX	8	50/12.5	Fuji Telecasting Co, Tokyo: 21.15-16.15
31) ZR	8	1	R. Kochi Broadc. Co, Kochi
32) KF	9	10/2.5	Nishi-Nippon Broadc. Co, Takamatsu
33) AF	10	5/1.25	Nankai Broadc. Co, Matsuyama
3) EF	10	3/0.75	Yamagata Broadc. Co, Yamagata
34) IX	10	10/2.5	Yomiuri Telecasting Corpo, Osaka: 21.00-15.00
35) HF	10	10/2.5	San In Broadc. System, Yonago
36) EX	10	50/12.5	NET TV Netw, Tokyo: 21.40-15.00
37) HX	10	1/0.25	Nishi Nippon TV Corp, Kita Kyushu
15) EE	10	1/0.25	Onomichi
19) WL	10	1/0.25	Obihiro
22) MF	10	1	Sasebo
38) YR	11	10/2.5	Sanyo Broadc. Co, Okayama
39) TR	11	5/1.25	Akita Broadc. System, Akita
40) PR	11	3/0.75	Fukui Broadc. Co, Fukui
41) SR	11	1/0.25	Shinetsu Broadc. Co, Nagano
1) HE	11	1/0.25	Asahikawa
1) QF	11	1/0.25	Muroran
16) PF	11	1	Yamaguchi Broadc. Co, Tokyuama
27) VR	11	1/0.25	Shizuoka Broadc. System, Shizuoka
42) BF	11	1	Kumamoto Broadc. Co, Kumamoto
28) PX	11	3	Fukushima Television Broadc. Co.
43) LX	11	10/2.5	Nagoya Broadc. Co, Nagoya: 22.00-15.00

MIFED

MIFED, the International Film, TVfilm and Documentary Market, is an international centre where feature, TV and documentary films are traded on a worldwide scale. Contacts are made there for negotiating agreements in any branch of film production, co-production, financing and the issue of import and export licences.
MIFED headquarters, which are equipped with all modern facilities and comforts, contain numerous rooms for the projection of cinema and TV films. The services of technicians and interpreters are provided free. International cable, telephone, telex and telefoto facilities are available. Also conference rooms, offices, dining rooms and bars. Medical assistance on the premises.
MIFED is held twice a year: in APRIL to coincide with the Milan Fair, and in OCTOBER.

Information: MIFED
Largo Domodossola 1 - 20145 Milano (Italy)
Telegrams: MIFED - Milano

Japan—Ryukyu Islands

Call	ch	kW	Name
19) KZ	12	1/0.25	Hakodate
44) NX	12	10/2.5	Hiroshima Television, Hiroshima
44) NY	12	1/0.25	Onomichi
45) TX	12	50/12.5	Japan Science Foundation, Tokyo
46) OX	12	10/2.5	Sendai Broadc. Co, Sendai

1) North 1, West 5, Sapporo. **L.P:** Pres: S. Abe. Exc. Dir: K. Muroya. Dir. Tec: K. Kamo. (11 low power st's not mentioned).
2) 7 Toshin-cho, Higashi-ku, Nagoya. **L.P:** Pres: M. Abo. St. Mgr: K. Matsumoto. Dir. Tec: K. Sugita. Film Buyer: T. Takeuchi. (13 satellites).
3) 5, 2 chome, Hatagomachi, Yamagata. Pres: Y. Hattori (4 satellites).
4) 26-1, Kasumi-cho, Yagiyama, Sendai. Pres: C. Kanno (4 satellites).
5) 10-18 Ushijima, Toyama. Pres: R. Yokoyama. (2 satellites).
6) 6, 1-chome, Nagahamacho, Fukuoka. Pres: S. Takano. (3 satellites).
7) 17, Koraicho, Kafoshima. Pres: S. Hatanaka. (10 satellites).
8) 32, 1-chome, Saiwaicho, Tokushima. Pres: T. Yamanouchi. (8 satellites).
9) 72 Fukuda, Matsumori, Aomori City. Pres: I. Sakamoto (5 satellites).
10) Shikoku.
11) 2, 3-chome, Honmachi, Tottori. Pres: Y. Yonehara. (5 satellites).
12) 14 Niban-cho, Chiyoda-ku, Tokyo. **L.P:** Chmn: M. Shoriki. Pres: T. Fukui. (14 satellites).
13) 4, Watanabetori, Fukuoka. Pres: H. Kaneko. (4 satellites).
14) Dojima, Kitaku, Osaka. Pres: S. Takahashi.
15) Motomachi 34, Hiroshima. **L.P:** Pres: T. Tsukifuji. (18 satellites).
16) Koenku, Tokuyama. Pres: K. Nomura. (8 satellites).
17) 4-15, Shinsakae-machi, Naka-ku, Nagoya. **L.P:** Pres: G. Kojima. Dir: K. Igushi. (13 satellites).
18) 18, 3-chome, Kawagishicho, Niigata. Pres: E. Horiuchi (15 satellites).
19) 11, 1-chome, Nishi, Minami Ichijo, Sapporo. **L.P:** Pres: Y. Hagiwara. Dir. Tec: S. Ito. Film Buyer: R. Kaji (35 satellites).
20) 6-2 Kitaguchi, Kofu. Pres: H. Noguchi (7 satellites).
21) 5-1315, Imazuru, Oita. Pres: Y. Hoshino. (10 satellites).
22) 1-35 Kamimachi, Nagasaki. Pres: R. Nakabe. (12 satellites).
23) 6-1, Shikecho, Morioka City. Pres: T. Ota. (11 satellites).
24) 6-3, 5-chome, Akasaka, Minato-ku, Tokyo. **L.P:** Chmn: T. Adachi. Pres: J. Imamichi. Dir: N. Omori. Dir. Eng: M. Yoshida. (14 satellites).
25) Asahi Broadc. Corp. TV station, 2-2, Oyodocho, Oyodoku, Osaka. **Tel:** 458-5321. **Cable:** Johnrtv. **L.P:** see radio.
26) 5-2, Korinho, Kanazawa. Pres: I. Saga. (10 satellites).
27) 46, Konyamachi, Shizuoka. Pres: M. Oishi. (22 satellites).
28) 5-2, Miyama-cho, Fukushima. Pres: M. Kanno. (12 satellites).
29) 51 Umegae-cho, Kitaku, Osaka. **L.P:** Pres: Y. Kobayashi.
30) 7, Kawadacho, Ichigaya, Sinjuku-ku, Tokyo. **L.P:** Chmn: S. Mizuno. Pres: N. Shikanai. Film Buyer: Y. Yasunaga. Dir. Tec: E. Nishiyama. (14 satellites).
31) 23 Honmachi, Kochi. Pres: M. Katapa. (11 satellites).
32) 2-8 Marunouchi, Takamatsu. Pres: J. Hirai. (1 satellite).
33) 1135-1, Dogo, Matsuyama. Pres: Y. Hirata. (12 satellites).
34) 74, 2-chome, Iwai-cho, Kitaku, Osaka. **L.P:** Man. Dir: T. Okano. Dir. Tec: R. Kimura. Dir. Prgr (Film Buyer): T. Matsuoka.
35) 423 Nishi-Fukuhara, Yonago. Pres: O. Oda. (14 satellites).
36) 55, Zaimokucho, Azabu, Minato-ku, Tokyo. **L.P:** Chmn: Y. Akao. Pres: N. Yamauchi. Film Buyer: M. Ikushima. Dir. Tec: M. Iwamoto. (14 satellites).
37) Yahataku, Kita Kyushu. Pres: S. Tanaka. (3 satellites).
38) 3-28, Uchisange, Okayama. Pres: M. Tatsumi. (12 satellites).
39) Sanno-Ohdori, Akita. Pres: Kurata. (9 satellites).
40) 501, Otemachi, Fukui. Pres: S. Kato. (8 satellites).
41) 1,132 Yoshidamachi, Nagano. Pres: Ishihara. (21 satellites).
42) 30, Yamasakimachi, Kumamoto. Pres: R. Fukami (11 satellites).
43) 58, Shimo-Chayamachi, Nakaku, Nagoya. Pres: S. Kamiya. (9 satellites).
44) 6-4, Nakamachi, Hiroshima. Pres: H. Sato. (18 satellites).
45) 18 Shibakoen, Minatoku, Tokyo. Pres: S. Habe.
46) Shin-Sendai Bldg, 175-4, Omachi, Sendai. Pres: S. Suzuki. (4 satellites).

JORDAN

JORDAN TELEVISION (Gov. Comm.)
Addr: P.O. Box 2333, Jebel Amman, or P.O. Box 10 41, Amman. **Tel:** 38761. **Cable:** Television. **L.P:** Dir. Gen: M. Kamal. Asst. Dir. Gen. Adm: F. Jarrar. Asst. Dir. Gen. Engineering: T. Nasereddin. Asst. Dir. Gen. Prgr's: O. Khatib. **Station:** Amman chE3 & E6 100kW H. **D. Prgr:** 16.00-21.00
TV sets: 15.000 — **ALF:** £5/0/0.

KOREA (Rep.)

SEOUL TELEVISION STATION (Gov.)
Addr: 33, 3ka, Yejang-Dong, Chung-ku, Seoul. **Tel:** 8-4127.
L.P: St. Mgr: J. Y. Kim. Dir. Tec: O. J. Kun. Dir. Prgr: S. E. Han. **Station:** Seoul chA9 13.4/6.7kW H. **D. Prgr:** 21.30-23.30, 08.30-14.30 (Sun 21.30-14.30) — **TV sets:** 100.000.

TONG-YANG BROADCASTING CO. Ltd.
Addr: 58-9 Seosomun-dong, Seoul. **Tel:** 23-9161. **Cable:** tbcradiotv.
L.P: Pres: D. K. Kim. Exec. Dir: K. Kim. Dir. Tec: J. Kang. Prgr. Mgr: D. S. Choi.
Stations: Seoul (HLCE) chA7 2/1kW, Pusan (HLKE) chA9 0.5/0.25 kW. **D. Prgr:** 22.00-00.30, 08.30 (Sat 04.30)-14.30 (Sun 22.00-14.30).

AMERICAN FORCES KOREA NETWORK (US Gov. Funds)
Addr: APO 96301, San Francisco, Calif. U.S.A. **Tel:** Yongsan 2495.
L.P: see radio. **Stations** (Pol. = H): Seoul chA2 5kW, Hwaakson chA12 0.5kW, Kunsan chA2 0.12kW, Taegu chA6 0.5kW, Taejon chA12 0.5kW, Pusan chA2 0.12kW, Pajuri chA4 0.5kW. **D. Prgr:** 08.00 (Sat 01.30, Sun 00.00)-16.00.

KUWAIT

TELEVISION OF KUWAIT (Gov.)
Addr: P.O. Box 193, Kuwait. **Tel:** 39411. **Cable:** Alirshad. **L.P:** Dir. TV: J. Hassoun. For other personnel: see radio. **Stations:** Dasman chE8 0.1kW H, Mutlaa chE10 2/10kW H, Rawdatein chE6 2kW H. **Projected:** So. Repeater chE8. **D. Prgr:** 14.00-21.00 (Summer 15.00-21.00). **Test-tr's:** 13.00-14.00 (Summer 14.00-15.00) — **TV sets:** 50.000.

LEBANON

COMPAGNIE LIBANAISE DE TELEVISION (Comm.)
Addr: B.P. 4848, Beirut. **Tel:** 251680. **Cable:** Teveliban. **L.P:** Pres. & Dir. Gen: Gen. S. Nofal. Vice Dir. Gen: W. Ezzedine. Dir. Tec: N. Loutfi. **Stations** (Pol: H): Beirut 5kW: chE7 (Arabic), chE9 (French/English), Jounieh chE2 0.1kW (relay chE9), Tripoli chE2 1kW (relay chE7), Maasser el Chouf chE4 60kW (relay chE7 and E9). **D. Prgr:** 16.00-21.00 (both channels).

TELE ORIENT (Comm.)
Addr: Box 5054, Beirut. **Tel:** 284100. **Cable:** Telibor. **L.P:** J. Abou-Jaoude. Dir. Gen: H. Jamieson. **Stations:** chE11 (Beirut) 100/20kW H, chE5 (Beirut) 2/0.4kW H; Relay st's: chE11 (Mt. Knaisse) 100/20kW, chE11 (Tripoli) 1/0.2kW. **D. Prgr:** 16.00-21.00 in Arabic, English, French — **TV sets:** 175.000.

MALAYSIA

MALAYSIAN TELEVISION SERVICE (Gov.)
Addr: Dep. of Television, c/o Dewan Tunku Abdul Rahman, Ampang Rd, Kuala Lumpur. **Tel:** 23181. **Cable:** Tivimalaya.
L.P: Dir: Ow Kheng Law. Head of Prgr: R. I. bin Raja Zahid. Chief Eng: S. K. Tham. Film Buyer: A. K. Foo.
Stations (System B 625 lines): Kuala Lumpur chM5 100/200kW H. **Repeater st's:** B. Pahat chM7, Ipoh chM6, Johore Baru chM3, Kluang chM9, Malacca chM6, Penang chM5, Taiping chM4 (all 100/20kW H). **D. Prgr:** 10.15 (Fri-Sun 07.30)-16.15. **TV sets:** 100.000 — **ALF:** M$ 24.00 (combined Radio & TV).

PAKISTAN

PAKISTAN TELEVISION CORPORATION LIMITED (Public Ltd Co.)
Addr: P.O. Box 230, Rawalpindi. **Tel:** 66337. **Cable:** Pakteevee. **L.P:** Man. Dir: A. M. S. Ahmad. Finance Dir: K. A. Islam. Dir. Prgr. Adm: K. S. Hosain. Dir. Tec: R. Ahmad. Chief of Film Prod: A. R. Khan. Adm. Mgr: A. Nasir Siddiqui
Stations: (CCIR 625 lines): Rawalpindi chE6 25kW H, Lahore chE9 0.55kW H, Dacca chE9 0.55kW H, Karachi chE4 36kW H. **D. Prgr:** 13.30-16.30. **Projected:** Chittagong, Peshawar (December 1968) — **TV sets:** 40.000.

PHILIPPINES

DEPT. OF PUBLIC WORKS AND COMMUNICATIONS.
Radio Control Office, Manila
Stations: *Peak Power Output.

	Call	ch	kW*	Location
1)	DYCB-TV	A3	2	Cebu City
1)	DZAQ-TV	A3	10	Quezon City
2)	DYXL-TV	A4	2	Bacolod City
3)	DZTM-TV	A5	10	Makati, Rizal
4)	DYSS-TV	A7	0.1	Cebu City
4)	DZBB-TV	A7	5	Quezon City
1)	DXZL-TV	A9	5	Quezon City
1)	DZRI-TV	A10	0.5	Baguio City
5)	DZRH-TV	A11	5	Quezon City
6)	DZBS-TV	A12	0.5	Baguio City
7)	DY-TV	A13	2.24	Cebu City
7)	DZ-TV	A13	12.5	Rizal
7)	DX-TV	A13	0.5	Davao City
8)	DZFU-TV	A14	0.4	Manila

1) **Bolinao Electronics Corpo.** CBN Bldg, Intramuros, Manila **D. Prgr:** 23.00-16.00 (DZXL-TV 01.00-16.00; DYCB 04.00-16.00; DZRI-TV 00.00-16.00).
2) **Manila Chronicle Publications,** P.O. Box 1593, Manila. **D. Prgr:** 01.00-16.00.
3) **Associated Broadc. Corpo,** P.O. Box 2789, Manila **L.P.** St. Mgr: R. Diez. Dir. Tec: A. Pacz. **D. Prgr:** 07.45-15.30.
4) **Republic Broadc. System,** Diliman, Quezon City, **D. Prgr:** 23.00-16.00 (DYSS-TV 09.00-15.00).
5) **Metropolitan Broadc. Co.,** Quezon City. **D. Prgr:** 08.00-15.00.
6) **R. Philippines Network Inc.,** Baguio City **D. Prgr:** 09.00-13.00.
7) **Inter Island Broadc. Corpo,** 2nd Floor, A. Soriano Bldg., Makati, Rizal. **L.P:** Exec. Vice Pres. & Gen. Mgr: H. R. Canoy. **D. Prgr:** DY-TV 08.00-14.00; DZ-TV 06.00-15.00; DX-TV 07.00-15.00.
8) Feati University, Helios Str., Manila. **D. Prgr:** 02.00-15.00 **TV sets:** 350.000 (incl. 4,500 Colour Sets).

RYUKYU ISLANDS

RYUKYUS BROADCASTING CORPORATION (Comm.)
Addr: CPO Box 4, Naha, Okinawa. **L.P:** see radio.
Stations: KSAR-TV chA12 120/24kW. **D. Prgr's:** 21.45-15.00 in Japanese and English.

OKINAWA TELEVISION BROADC. LTD. (Comm.)
Addr: 1-chome, Matsuyamacho, Naha, Okinawa. **L.P:** Gen. Mgr: Y. Ymashiro. Dir. Tec: S. Sakugawa. Film Buyer: K. Nagahama.

Station: KSDW-TV chA10 5/2kW. **D. Prgr:** 03.00-15.00 in Japanese, English — **TV sets:** 160.000.
AFRTS: see USA.

OKINAWA HOSO KYOKAI (O.H.K.)
Addr: 342 Majiboru, Sobe, Naha. **L.P:** Pres: C. Kabira. Dir. Tec: N. Shimoji
Stations at Miyako, Fshigaki, Friomote, Yonagum and Naha.

SAUDI ARABIA

MINISTRY OF INFORMATION (Gov.)
Addr: Riyadh. **L.P:** see radio.
Stations (System B 625 lines): Jeddah chE10 10/2kW H, Riyadh chE5 10/2kW H, Mecca chE7 10/2kW H, Taif chE8 10/2kW H, Medina chE5 25/5kW H, Quassim chE8 40/5kW H.
D.Prgr: 3 hrs daily (approx).
Projected: Damman.

ARAMCO-TV (Non-comm, private Co.)
Addr: Box 1359, Dhahran. **Te:** 3061. **Cable:** Aramco. **L.P:** Producer: S. A. Al-Mozaini. Asst. Producer: S. M. Kubeisy. Chief Eng: L. R. Wilson.
Stations: chA2 (Dhahran) 12/6kW, chA13 (Hofuf) 0.5/0.25kW.
D. Prgr: Sign on approx. 16.00; Prgr. time: Sat-Tues 4½ hrs. Wed/Fri 5½ hrs. Thurs 6½ hrs (times vary with Sun). **Pub:** weekly schedule — **TV sets:** 50.000.

SINGAPORE

TELEVISION SINGAPORE (Gov.)
Addr: P.O. Box 1902, Singapore. **L.P:** see radio. **Stations:** Bukit Batok: chE5 (Singapore I), chE8 (Singapore II) 80kW.
D. Prgr: chE5 10.30 (Sat/Sun 05.30)-16.00; chE8 10.50 (Sat/Sun 09.30)-16.00.
TV-sets: 108.040 — **ALF:** $ 36.00.

SOUTHERN YEMEN (Peoples' Republic of)

SOUTH YEMENI TELEVISION SERVICE (Gov, Comm.)
Addr: Box 1264, Aden. **L.P:** See radio.
Stations: (625 lines): Al-Aineh chE4 0.4kW H, Al-Bargh chE10 0.4kW H, Ga'ar (Abyan) chE7 0.2kW H + 2 satellites Crater chE8 and Little Aden chE5. **D. Prgr:** Educ. Prgr: Mon, Sat 07.00-08.00; Comm. Prgr: D 15.00-19.30 — **TV sets:** 20.000.

SYRIAN ARAB REP.

SYRIAN ARAB TELEVISION (Gov, Comm.)
Addr: Ommayyad Square, Damascus. **Te:** 12.000. **L.P:** Dir. of Prgr's: K. Chaare.
Stations: Damascus chE5 150/30kW, Homs chE7 30/6kW, Sheikh Dahor chE9 10/2kW, Aleppo chE5 30/6kW, Saraukhiyah chE8 2.25/0.45kW. **D. Prgr:** 16.00-22.00 — **TV sets:** 75.000.

THAILAND

TELEVISION OF THAILAND (Gov.)
Addr: Public Relations Dept, Bangkok. **L.P:** see radio.
Stations: Lampang ch8 3kW, Khankhaen ch5 6kW, Haadyai ch9 1kW, Chiengmai (relay) ch8. **D. Prgr:** ch8 12.00-17.00, ch5 11.00-17.00, ch9 11.30-16.30. **F.Pl:** Nationwide netw.

THAI TELEVISION CO. Ltd. (Semi Gov, Comm.)
Addr: Mansion B. Rajdamnern Ave. Bangkok. Te: 22273. **Cable:** Thaitevi. **L.P:** Dir. Gen: Lt. Gen. K. Punnagunta. Gen. Mgr & Film Buyer: P. Hongsanand. Dir. Tec: A. Pojanapisute. Dir. Prgr. & Film Buyer: Ch. Rangsikul.
Stations (System RCA): Bangkok chA4 29/14.5kW H. **Relay st's:** Khonkaen chA5 33/16.5kW H, Lampang chA8 21.4/10.7kW H, Hadyai chA9 10.7/5.35kW H. **D. Prgr:** Mon-Fri 03.00-03.30 (or 04.00), 10.00-17.00; Sat/Sun 03.00-17.00.

THE ARMY TELEVISION HSA-TV (Gov, Comm.)
Addr: Paholyotin Rd, Bangkok. **Te:** 7028. **Stations:** Bangkok chA7 5kW V. Relay st: Saraburi chA5. **D. Prgr:** 10.15-16.15 Sat also 01.00-06.00, Sun also 02.00-06.00 — **TV sets:** 220.000.

TURKEY

TURKISH RADIO TELEVISION CORPORATION
Addr: TRT-TV Mithat Pasa Cad. 47, Ankara. **L.P:** Dir. Tec: F. Isikçi. Dir. of Prgr's: M. T. Ongören.
An education TV Training centre with full studio and other facilities is now in operation in Ankara. The studio is radio-linked to a tr. in the vicinity of Ankara. Experimental tr. for 3 days a week (3 hrs) per day on chE5 (Ankara) 6/3kW.
Projected st's: Adana chE4 (30kW), Ankara chE3 (100kW), Bursa chE2 (60kW), Istanbul chE4 (100kW), Izmir chE3 (100kW), Konya chE10 (30kW).

ISTANBUL TEKNIK UNIVERSITESI (Gov. Exp.)
Addr: Elektrik Fakültesi, Yüsek Frekans Teknigi Kürsüsü, Istanbul. **Te:** 482250. **L.P:** Prof. Dr. A. Ataman. **Station:** chE4 50W H. **D. Prgr:** Fri. 14.00-18.00 during the Academic Year
TV sets: 6.000 — **ALF:** 100 TL ($ 11.00).

PACIFIC

AUSTRALIA (Commonwealth of)

Standards: Def. 625 — Picture freq: 25 — ch width: 7 MHz FM.

AUSTRALIAN BROADCASTING COMMISSION (ABC)
National Television is controlled by the Australian Broadcasting Commission, which is responsible to Parliament through the Postmaster General, whose department controls the transmitters — **Addr:** Box 487, GPO, Sydney 2001 — **L.P:** see radio.
Stations: One each in Sydney (ABN), Melbourne (ABV), Brisbane (ABQ), Adelaide (ABS), Perth (ABW) and Hobart (AB1), Canberra (ABC). Operate on Australian ch2 on 63-70Mc 100/20kW exc. ABC Canberra ch3. **Po:** H exc. Canberra V.
ABHN Newcastle ch5, H — ABEV Bendigo ch1, V — ABRV Ballarat ch3, H — ABNT Launceston ch3, H — ABDQ Toowoomba ch3, H — ABWN Wollongng ch5A, H — ABCN Orange ch1, V — ABLV Latrobe Valley ch4, H — ABGV Goulbourn Valley ch3, V — ABRQ Rockhampton ch3, H — ABRN Richmond Tweed ch6, H — ABTQ Townsville ch3, H — ABNS Pt. Pirie ch1, V — ABMN Wagga Wagga ch0, H — ABMQ Mackay ch4, H — ABAV Albury ch1, H — ABSW Bunbury ch5, H — ABDN Grafton — Kempsey ch2, H — ABSV Swan Hill ch2, V — ABWQ Maryborough ch6, V — ABUN Tamworth ch7, H — ABMV Mildura ch4, H — ABGS Mt. Gambier ch1, H — ABLN Broken Hill ch2, V — ABTN Taree ch1, V — ABCW Northam ch4, H — ABGN Griffith ch7, H — ABSQ Warwick ch1, H — ABAW Albany ch2, V — ABNQ Cairns ch9, H — ABSN Bega-Cooma ch8, V — ABQN Dubbo ch5, V
+ 19 low power translator st's.
D. Prgr's: Mon-Fri 01.30-01.50, 04.00-04.50, 06.45-13.00; Sat 03.30-13.00; Sun 01.00-02.15 (fortnightly church service), 03.00-12.50
TV sets: 2.341.532 — **ALF:** A$ 14.00 (TV only). A$ 20.00 (radio & TV combined).

PRIVATELY OWNED COMMERCIAL TELEVISION STATIONS
Federation of Australian Commercial Television Stations, Suite 404-4th Floor, Caltex House, Sydney. **Te:** 27-8151. **Cable:** Telefed. **L.P:** Gen. Mgr: A. S. Cowan. Exec. Asst: A. B. Simpson. **Adv.** accepted under conditions of Australian Broadc. Control Board.
Stations: The first two letters are an abbreviation of the name of the licence, the third indicates the state and the numeral signifies the channel.
All st's 100/20kW: exc. 3) 50/10kW; 8a) 50/10kW; 32) 10/20kW; 39) 18/4kW: H = Horizontal Pol. V = Vertical Pol.

1)	ATVO(H)	13)	TVW7(V)	29)	GTV9(H)
2)	TVQO(H)	14)	HSV7(V)	3)	GSW9(V)*
3)	BTW3(H)	15)	ATN7(H)	30)	QTQ9(H)
4)	NBN3(H)	16)	BTQ7(H)	31)	TNT9(H)
5)	RVN2(H)	17)	CTC7(V)	32)	MTN9(H)
6)	WIN4(H)	18)	RTQ7(H)	33)	NWS9(H)
7)	AMV4(H)	19)	TNQ7(H)	34)	NEN9(H)
8)	SDQ4(H)	20)	ECN8(V)	35)	GLV10(H)
8a)	GTS4(V)	21)	CBN8(V)	8)	DDQ10(H)
9)	TVT6(H)	22)	RTN8(H)	36)	TEN10(H)
10)	BTV6(H)	23)	BCV8(V)	37)	SAS10(H)
10a)	BKN6(H)	24)	WBQ8(V)	38)	NRN11(H)
10b)	MVQ6	25)	STV8(H)	39)	FNQ10(H)
11)	GMV6(V)	26)	SES8(H)	* = relay st.	
21)	CWN6(H)*	27)	STW9(H)		
12)	ADS7(H)	28)	TCN9(H)		

1) **Austarama TV Pty. Ltd,** P.O. Box 42, Nunawading, Vic. 3131. **Te:** 232611. **Cable:** Austarama. **L.P:** Gen. Mgr: M. J. Ryan. Dir. Tec: G. H. Dawey. Film Buyer: N. Carlyon. **D. Prgr:** 00.00 (Fri 01.00, Sat 22.30)-13.30. Sun 02.00-13.30.
2) **Universal Telecasters Qld. Ltd,** G.P.O. Box 150, Brisbane 4001. **Te:** 36-0366. **L.P:** Gen. Mgr. & Film Buyer: R. Archer. Dir. Tec: J. C. Stevenson. **D. Prgr:** 00.30 (Sat 23.30, Sun 02.00) 13.00.
3) **South Western Telecasters Ltd,** P.O. Box 112, Bunbury 6230. **Te:** 3531. **Cable:** Souwestel. **L.P:** Mgr. & Film Buyer: B. F. Hopwood. Dir. Tec: A. W. Stewart. **D.Prgr:** 09.30-14.30. (GSW9 = Albany).
4) **Newcastle Broadc. & TV Corp. Ltd,** P.O. Box 555, Newcastle, 2000. **Te:** 20321. **Cable:** Chantrec. **L.P:** Operations Mgr. & Film Buyer: A. B. Newman. Dir. Tec: H. J. McPhee. **D.Prgr:** Mon-Fri 00.55-13.30 (Sat 14.00).
5) **Riverina TV Ltd,** P.O. Box 2, Kooringal, Via Wagga Wagga 2650. **Te:** 2088. **Cable:** Rivtel. **L.P:** Mgr. & Film Buyer: W. P. Marsden. Dir. Tec: S. W. McDonald. **D.Prgr:** 06.00 (Wed 02.30, Sat/Sun 05.00)-13.00.
6) **TV Wollongong Transmissions Ltd,** P.O. Box 500, Wollongong 2500. **Te:** 26444. **Cable:** Winteevee. **L.P:** Gen. Mgr. & Film Buyer: W. Lean. Dir. Tec: K. Roberts. **D.Prgr:** 02.00 (Sat 02.30, Sun 04.00)-13.30 (+ 1 satellite).
7) **Albury Upper Murray TV Ltd,** TV-Centre, Albury, NSW. 2640. **Te:** 251494. **Cable:** Ayemfour. **L.P:** Man. Dir: A. R. Kidd. Dir. Tec: T. Jones. **D.Prgr:** 05.00 (Wed 02.30, Sat 07.00)-13.00; Sun 06.00-12.30.
8) **Darling Downs TV Ltd,** P.O. Box 670, Toowoomba 4350. **Te:** 22288. **Cable:** Deedeteque. **L.P:** Gen. Mgr: S. J. Fitzpatrick. Dir. Tec: N. S. Hill. Film Buyer: R. A. Fry. **D.Prgr:** 03.00-13.00 (approx.); Sat 07.00-12.30; Sun 06.00-12.15. (SDQ4 relay from Toowoomba).
8a) **Spencer Gulf Telecasters Ltd,** P.O. Box 380, Port Pirie 5540. **Te:** 11. **L.P:** St. Mgr: B. Rudford. Dir. Tec: E. Downing. **D.Prgr:** 20.30-12.30.
9) **Tasmanian TV Ltd,** G.P.O. Box 1209M, Hobart 7001. **Te:** 80341. **Cable:** Tasteevee. **L.P:** Man. Dir: E. G. McRae. Dir. Tec: W. Morrison. **D.Prgr:** Mon-Thurs 03.30-13.30, Fri/Sat 06.00-13.30, Sun 02.00-13.30.
10) **Ballarat & Western Victoria TV Ltd,** P.O. Box 464, Ballarat 3350. **Te:** 21666. **Cable:** Beeteesix. **L.P:** Gen. Mgr. & Film Buyer: B. F. Jackson. Dir. Tec: B. G. Robertson. **D.Prgr:** 06.30 (Sun, Tues, Wed 01.30)-13.15 (+ 2 translators).

10a) **Broken Hill TV Ltd,** 235 Argent St, Broken Hill 2880. **L.P:** St. Mgr: M. Hennesy. **D.Prgr:** Mon-Fri 08.30-12.00; Sat 08.00-12.00; Sun 20.45-24.00, 08.30-12.00.
10b) **MacKay Television Development Pty. Ltd,** P.O. Box 496, MacKay, Qld. **Te:** 6333. **Cable:** Emveeque. **L.P:** Man. Dir: M. E. Low. **D.Prgr:** 07.00 (Thurs 05.00)-12.00 (Sun 13.00).
11) **Goulburn Murray TV Ltd,** P.O. Box 666, Shepparton 3630. **L.P:** Gen. Mgr: P. L. Twomey. Film Buyer: N. Eva. **D.Prgr:** 02.00-13.30 (+ 2 satellites).
12) **TV Broadcasters Ltd,** 125 Strangways Terrace, No. Adelaide 5006. **Te:** 6-8591. **Cable:** Adseven. **L.P:** Gen. Mgr: J. Fowler. Prgr. Mgr. & Film Buyer: L. Taylor. Dir. Tec: N. Sawyer. **D.Prgr:** 00.00-14.30.
13) **TVW Ltd,** P.O. Box 7, Tuart Hill, We. Australia 6060. **Te:** 491422. **Cable:** Teleview. **L.P:** St. Mgr: M. A. Bostock. Film Buyer: J. W. Cruthers. Dir. Tec: J. R. Quicke. **D.Prgr:** 03.00-15.30.
14) **Herald Sun TV Pty. Ltd,** G.P.O. Box 2150, Melbourne 3001. **Te:** 690771. **Cable:** Hertel. **L.P:** Mgr: K. S. Cairns. Dir. Tec: J. Fischer. **D.Prgr:** W 00.45 (Sat 00.00)-13.30 (Fri 14.30); Sun 01.15-14.00.
15) **Amalgamated TV Services Pty. Ltd,** Television Centre, Epping, NSW. 2121. **Te:** 850111. **Cable:** Telecentre. **L.P:** Gen. Mgr: J. H. Oswin. Dir. Tec: M. Stevenson. **D.Prgr:** 23.00 (Sat 21.00)-24.00, Sun 23.15-14.00.
16) **Brisbane TV Ltd,** Sir. S. Griffiths Drive, Mt. Coottha 4000. **Te:** 360111. **Cable:** Beeteeque. **L.P:** Gen. Mgr: E. Allen. Dir. Tec: G. Everingham. **D.Prgr:** 00.30 (Sat 23.30)-13.00; Sun 02.00-13.00.
17) **Canberra TV Ltd,** P.O. Box 633, Canberra 2601. **Te:** 40255. **Cable:** Ceeteecee. **L.P:** Gen. Mgr: G. K. Barlin. Dir. Tec: D. J. Stewart. **D.Prgr:** 02.30-13.30 (approx.).
18) **Rockhampton TV Ltd,** P.O. Box 568, Rockhampton 4700. **Te:** 84877. **Cable:** Arteeque. **L.P:** St. Mgr. & Film Buyer: B. Saunders. Dir. Tec: C. Amoore. **D.Prgr:** 04.30-12.15 (approx.); Sat/Sun 06.30-13.15.
19) **Telecasters No. Queensland Ltd,** P.O. Box 1016, Townsville 4810. **Te:** 6161. **Cable:** Teenq. **L.P:** Gen. Mgr. & Film Buyer: K. R. Christensen. Dir. Tec: R. M. Barton. **D.Prgr:** 06.30-12.30 (Wed 03.30-12.00).
20) **East Coast Television Ltd,** P.O. Box 185, Taree 2430. **Te:** 1165. **L.P:** Man. Dir: J. P. Clarke. St. Mgr: A. W. Thompson. Dir. Tec: D. Walmsley. **D.Prgr:** Mon-Fri 04.30-12.30; Sat 06.00-12.30; Sun 07.00-12.00.
21) **Country TV Services Ltd,** P.O. Box 465, Orange 2800. **Te:** 622288. **Cable:** Cebtes. **L.P:** Mgr: A. Ridley. Dir. Tec: E. Crouch. **D.Prgr:** 05.30 (Tues, Thurs 03.30)-12.30 (Sat 13.00); Sun 02.45-12.30.
22) **Richmond Tweed TV Ltd,** P.O. Box 423, Lismore 2480. **Te:** 2351. **Cable:** Richteevee. **L.P:** Man. Dir: L. T. Warrick. Dir. Tec: H. G. Green. Film Buyer: R. F. McLaren. **D.Prgr:** Mon-Fri 03.00-12.30 (or 13.00); Sat 06.00-13.00; Sun 04.00-12.30.
23) **Bendigo & Co. Victoria Telecasters Ltd,** P.O. Box 240, Bendigo 2550. **Te:** 30584. **Cable:** Beneight. **L.P:** Gen. Mgr. & Film Buyer: F. A. McManus. Dir. Tec: A. J. Dear. **D.Prgr:** Mon-Thurs 02.00-13.00; Fri 02.00-14.00; Sat 05.00-14.00; Sun 01.30-13.00 (+ 1 satellite).
24) **Wide Bay Burnett Television Ltd,** P.O. Box 30, Maryborough 4650. **Cable:** Wideteve. **L.P:** Gen. Mgr. & Film Buyer: F. T. Yates. Dir. Tec: B. Hunter. **D.Prgr:** 07.00 (Tues 05.30, Wed 04.00)-12.30 (approx.).
25) **Sunraysia Television Ltd,** 18, Deakin Ave, Mildura, Vic. 3500. **Te:** 30204. **L.P:** Man. Dir: M. Folie. Dir. Tec: D. Carsin. **D.Prgr:** Mon-Fri 07.15-12.15; Sat 07.45-12.00; Sun 07.30-12.00.
26) **South East Telecasters Ltd,** Box 821, Mt. Gambier, So. Australia 5290. **Te:** 24117. **Cable:** Setel. **L.P:** Gen. Mgr, Film Buyer & Dir. Tec: J. B. Lewis. **D.Prgr:** 08.00 (Wed 04.30, Sun 07.45)-13.00.
27) **Swan Television Ltd,** P.O. Box 99, Tuart Hill 6060. **Te:** 491911. **Cable:** Swantel. **L.P:** Gen. Mgr: R. J. Mercer. Dir. Tec: T. Provan. Film Buyer: T. Warne. **D.Prgr:** 03.00 (Sat/Sun 04.00)-16.00.
28) **TV Corporation Ltd,** P.O. Box 27, Willoughby 2068. **Te:** 430444. **Cable:** Diffusion. **L.P:** Chief Exec: B. Gyngell. Dir. Tec: L. Free. **D.Prgr:** 00.55 (Tues 00.30)-14.15; Sat 23.00-14.45; Sun 01.00-13.50.
29) **General TV Corporation Pty. Ltd,** P.O. Box 100, Richmond 3121. **Te:** 42-0201. **Cable:** Geeteevee. **L.P:** Gen. Mgr: N. Dick. St. Mgr: R. J. Biddle. Dir. Tec: T. O'Donohue. Film Buyer: I. G. Holmes. **D.Prgr:** W 20.30-14.00 (Sat 15.00); Sun 00.30-14.00.
30) **Queensland TV Ltd,** G.P.O. Box 72A, Brisbane 4001. **Te:** 362233. **Cable:** Queteenine. **L.P:** Gen. Mgr: J. W. McKay. Dir. Tec: P. J. Marlan. Prgr. Mgr. & Film Buyer: H. K. Cornish. **D.Prgr:** Mon-Fri 00.30-13.30; Sat 02.00-14.00; Sun 01.00-13.30.
31) **Northern TV Ltd,** P.O. Box 873, Launceston 7520. **Te:** 442551. **Cable:** Netnine. **L.P:** Man. Dir: A. E. Evans. St. Mgr: W. T. Freeman. Dir. Tec: K. Briggs. Film Buyer: B. England. **D.Prgr:** 03.00-13.30 (+ 6 translators).
32) **Murrumbidgee TV Ltd,** Remembrance Driveway, Griffith 2680. **Te:** 1756. **L.P:** Gen. Mgr: W. Gamble. Dir. Tec: K. Callaghan. **D.Prgr:** 06.30 (Wed 02.30)-13.00; Sun 04.55-13.00.
33) **Southern TV Corporation Ltd,** P.O. Box 9, No. Adelaide 5006. **Te:** 672322. **Cable:** Newsnine. **L.P:** Gen. Mgr: W. L. C. Davies. Dir. Tec: J. Batchelor. Film Buyer: R. G. Heading. **D.Prgr:** 00.00-14.30.
34) **TV New England Ltd,** P.O. Box 317, So. Tamworth 2340. **Te:** 657066. **Cable:** Nenine. **L.P:** Gen. Mgr: M. M. Moroney. St. Mgr. & Film Buyer: K. D. Smith. Dir. Tec: O. E. Bartle. **D.Prgr:** Mon-Fri 03.00-05.30; 07.00-13.00; Sat 07.00-13.00; Sun 03.00-12.30.
35) **Gippsland Latrobe Valley Telecasters Ltd,** P.O. Box 220, Traralgon 3844. **Te:** 71366. **L.P:** Gen. Mgr: D. W. Smith. Dir. Tec: H. Akkerman. **D.Prgr:** 06.30-13.00 (approx.).
36) **United Telecasters Sydney Ltd,** P.O. Box 9, Lane Cove 2066. **Te:** 885555. **Cable:** Unitelcast. **L.P:** St. Mgr: R. T. Lord. Dir. Tec: R. Thyer. Film Buyer: J. Fitzgerald. **D.Prgr:** 00.30-14.00.
37) **South Australian Telecasters Ltd,** 45 Park Terrace, Gilberton 5081. **Te:** 656991. **Cable:** Sasten. **L.P:** St. Mgr: D. M. L. Hall. Dir. Tec: P. W. Smith. Film Buyer: J. F. Trost. **D.Prgr:** 21.00 (Sat 00.00)-14.30; Sun 23.30-14.30.
38) **Northern Rivers Television Ltd,** P.O. Box 400, Coffs Harbour 2450. **Te:** 1201. **Cable:** Enareleven. **L.P:** Man. Dir. & Film Buyer: A. J. L. Cave. Dir. Tec: B. J. Beasley. **D.Prgr:** 06.00 (Wed 03.00, Sat 07.00)-13.00; Sun 07.00-12.30.
39) **Far Northern Television Ltd,** P.O. Box 596, Cairns 4870. **Te:** 512322. **Cable:** Effentee. **L.P:** St. Mgr. & Film Buyer: A. W. Webb. Asst. Mgr. & Chief Eng: L. J. Whittle. **D.Prgr:** 07.00 (Tues/Wed/Thurs 04.30)-12.00.

GUAM

KUAM TELEVISION (Comm.)

Addr: P.O. Box 368, Agana. **Cable:** Kuam. **L.P:** Pres: H. Scott Killgore. Vice Pres. & Gen. Mgr: W. B. Nielsen.
Stations: chA8, A10 0.43/0.22kW V — **D.Prgr:** 07.30-14.00 (Sat 23.00-14.00).
TV sets: 37.000.

HAWAII (U.S. State)

Television St's: see U.S.A. — **TV Homes:** 175.000.

NEW CALEDONIA

OFFICE DE RADIODIFF-TELEVISION FRANÇAISE

Addr: B.P. 327 Noumea. **L.P:** see radio. **Stations** (System K' 625 lines): 0.05kW.
chK'4, chK'6, chK'8 — **D.Prgr:** W 08.00-11.00; Sun 07.30-11.15.
TV sets: 5.000.

NEW ZEALAND

NEW ZEALAND BROADCASTING CORPORATION

(Statutory Public Body)
Addr: P.O. Box 98, Wellington. **Te:** 48200. **Cable:** Broadserv.
L.P: Dir. TV: N. Palmer. For other personnel: see radio.
Stations: Auckland AKTV ch2 100/20kW H, Wellington WNTV ch1 100/20kW H, Christchurch CHTV ch3 100/20kW H, Dunedin DNTV ch2 10/2kW H + two 100kW repeaters and fourteen low powered repeaters.
D.Prgr: 02.00-11.00 (Fri, Sat 12.00). **F.Pl:** Dunedin 50kW (ERP) + additional low powered repeaters. **Fi:** by licence payments and adv. revenue Tues, Wed, Thurs, Sat.
TV sets: 586.666. — **ALF:** NZ $13.00.

SAMOA (American)

TELEVISION OF SAMOA (Gov.)

Addr: Dept. of Education, Pago Pago. **Te:** 2438. **L.P:** Mgr: V. W. Williams. Dir. Tec: R. Ware. **Stations:** chA2/A4/A5/A8/A10/A12/(ch2 40kW, ch4 & 5 100kW). Satellites: chA7/A11 0.01kW H. **D.Prgr:** 18.30-09.30 (Sat 17.30-09.00).
TV sets: 1.500.

TAHITI

OFFICE DE RADIODIFF-TELEVISION FRANCAISE

Addr: B.P. 125, Papeete. **L.P:** see radio. **Stations** (System K' 625 lines): Pic Rouge chK4 0.05kW, Punaruu chK5 3W, Papeete chK6 0.05kW, Tataa chK8 0.05W — **D.Prgr:** 04.30-07.30 — **TV sets:** 4.000.

NORTH AMERICA

BERMUDA

BERMUDA RADIO & TELEVISION CO. LTD. (Comm.)

Addr: Box 452, Hamilton. **L.P:** Mgr: K. Belton.
Station (System RCA): ZBM-TV chA10 16/4kW H. **D.Prgr:** 20.00-03.15 (Thurs, Fri, Sat 04.30).

CAPITAL BROADCASTING CO. LTD.

Addr: Box 652, Hamilton. **Te:** 2-4444. **Cable:** Capbro. **L.P:** Mgr. & Film Buyer: M. E. Sheppard. Dir. Tec: P. Grimley.
Station: ZFB-TV chA8 5kW H. **D.Prgr:** W 18.30-04.00 (Sat 13.00-17.00 & 19.30-04.00); Sun 19.30-03.30.
TV sets: 16.000.

CANADA

CANADIAN BROADCASTING CORPORATION

(Publicly-owned)
Addr: Head Office: P.O. Box 478, Terminal "A", Ottawa. English Networks Division: P.O. Box 500, Toronto. French Networks Division: P.O. Box 6000, Montreal (See radio). **L.P:** Head Office: (See radio). English Networks Division: V. P. & Gen. Mgr: E. S. Hallman: Dir. N. & Public Affairs: (Radio & TV): M. L. Munro; Divisional Eng: G. H. Jones. Dir. TV: J. D. Nixon; TV Prgr. Dir: B. Raymond; Supervisor, Overseas & Foreign Rel: P. Boswell; French Networks Div: V.P. & Gen. Mgr: R. David; Dir. News & Public Affairs: Vacant; Div. Eng: M. Morais; Dir. TV: J. Blais; Prgr. Dir. TV: J. Landry; Supervisor Overseas & Foreign Rel: L. Hébert.

CBC Stations: Pol: V — Def: 525. **Colour:** NTSC.

English Network Stations:	Call	ChA	kW(ERP)
St. John's, Nfld.	CBNT	8	196/98
Corner Brook, Nfld.	CBYT	5	10.6/2.12
Goose Bay, Lab. (serviced by recordings)	CFLA-TV	8	0.87/0.435
Halifax, N.S.	CBHT	3	56/34
Montreal, Que.	CBMT	6	100/60
Ottawa, Ont.	CBOT	4	60.1/10
Toronto, Ont.	CBLT	6	99.5/53.5

English Network Stations:	Call	ChA	kW(ERP)
Winnipeg, Man.	CBWT	6	100/50
Edmonton, Alta.	CBXT	5	318/159
Vancouver, B.C.	CBUT	2	47.6/7.6

+ 53 Relay & Rebroadcasting Stations.

CBC Affiliated stations — (Privately-owned) 31.

CJCB-TV	Sydney, N.S.	CFQC-TV	Saskatoon, Sask.
CFCY-TV	Charlottetown, P.E.I.	CKCK-TV	Regina, Sask.
CHSJ-TV	Saint John, N.B.	CKOS-TV	Yorkton, Sask.
CKCW-TV	Moncton, N.B.	CKBI-TV	Prince Albert, Sask.
CHEX-TV	Peterborough, Ont.	CJLH-TV	Lethbridge, Alta.
CKWS-TV	Kingston, Ont.	CHCT-TV	Calgary, Alta.
CFPL-TV	London, Ont.	CJCL-TV	Labrador City, Nfld.
CKLW-TV	Windsor, Ont.	CFKL-TV	Schefferville, Que.
CKNX-TV	Wingham, Ont.	CHGH-TV	Churchill, Man.
CKVR-TV	Barrie, Ont.	CHAT-TV	Medicine Hat, Alta.
CFCH-TV	North Bay, Ont.	CKRD-TV	Red Deer, Alta.
CFCL-TV	Timmins, Ont.	CHEK-TV	Victorie, B.C.
CKSO-TV	Sudbury, Ont.	CHBC-TV	Kelowna, B.C.
CJIC-TV	Sault Ste. Marie, Ont.	CFCR-TV	Kamloops, B.C.
CKPR-TV	Port Arthur, Ont.	CHOV-TV	Pembroke, Ont.
CKX-TV	Brandon, Man.		

French Network Stations:	Call	ChA	kW(ERP)
Moncton, N.B.	CBAFT	11	10/5
Montreal, Que.	CBFT	2	100/50
Quebec, Que.	CBVT	11	173/87
Ottawa, Ont.	CBOFT	9	31/5.6
Winnipeg, Man. (serviced by recordings)	CBWFT	3	59/35.2
Edmonton, Alta.*	CBXT	5	318/159

+ 13 relay & rebroadcasting stations. *) 5-6 hrs per week in French.

CBC Affiliated stations (Privately-owned) 9

CKRS-TV	Jonquière, Que.	CKRT-TV	Rivière-du-Loup, Que.
CJBR-TV	Rimouski, Que.	CKBL-TV	Matane, Que.
CKTM-TV	Trois-Rivières, Que.	CHAU-TV	Carleton, Que.
CHLT-TV	Sherbrooke, Que.	CFKL-TV	Schefferville, Que.
CKRN-TV	Rouyn, Que.		

TV sets: 7.271.000.

PRIVATELY OWNED COMMERCIAL TV STATIONS

Rebroadc. st's and st's less 3kW not mentioned.

Call	chA	kW	Call	chA	kW
1) CHBC-TV	2*	3.7/0.46	34) CKRD-TV	6*	13.2/6.6
2) CHCT-TV	2*	100/50	35) CHEK-TV	6*	100/50
3) CJIC-TV	2*	28/15	36) CJON-TV	6*	62/33
4) CKCK-TV	2*	100/53.5	37) CJPM-TV	6*	61/36.5
5) CKCW-TV	2*	25/15	38) CHSS-TV	6*	11/1.8
6) CKPR-TV	2*	55.4/30.2	39) CHLT-TV	7*	170/100
7) CKSA-TV	2*	116/23.2	40) CJAY-TV	7*	325/65
8) CFTK-TV	3	4.1/2.1	41) CJLH-TV	7	96.1/19.2
9) CFRN-TV	3*	180.3/90.43	42) CKMJ-TV	7*	55.4/27.7
10) CJBR-TV	3*	49.3/28	43) CKRT-TV	7*	49/24.5
11) CJOX-TV	3	6.7/3.4	44) CFQC-TV	8*	180/27
12) CKOS-TV	3*	15/2.6	45) CHAN-TV	8*	164/81
13) CKVR-TV	3*	100/12.5	46) CKNX-TV	8*	90/55
14) CFCM-TV	4*	100/16	47) CKSS-TV	8*	120/12
15) CFCN-TV	4*	55/27.5	48) CJSS-TV	8*	130/78
16) CFCR-TV	4*	3.7/1.85	49) CFTO-TV	9*	325/162
17) CHAB-TV	4*	48/27	50) CHRE-TV	9*	140/75
18) CHSJ-TV	4*	100/14.4	51) CKBL-TV	9	153/92
19) CJCB-TV	4*	100/60	52) CKLW-TV	9*	178/35.6
20) CJCN-TV	4	26/13	53) CFCH-TV	10*	119/61
21) CKBI-TV	4	3/1.6	54) CFPL-TV	10*	325/195
22) CKRN-TV	4	115/57.5	55) CFTM-TV	10*	325/160
23) CHAU-TV	5	52.5/26.25	56) CHCH-TV	11*	230/143
24) CHOV-TV	5	19.1/9.5	57) CKWS-TV	11*	130/78
25) CJCH-TV	5*	52.8/26.4	58) CFCF-TV	12*	325/160
26) CJDC-TV	5	5/0.75	59) CHEX-TV	12*	139/83.4
27) CJFB-TV	5*	13.3/6.65	60) CKAM-TV	12*	141/77
28) CKBI-TV	5	61/12.2	61) CKRS-TV	12*	22/11
29) CKMI-TV	5*	13.85/6.78	62) CFCY-TV	13	38.6/19.3
30) CKSO-TV	5*	100/14.4	63) CJOH-TV	13*	325/160
31) CKX-TV	5*	54/27	64) CKCO-TV	13*	325/65
32) CFCL-TV	6*	100/50	65) CKTM-TV	13*	162.5/81.2
33) CHAT-TV	6*	5.7/3			

Stations marked with * telecast also prgr's in colour.

1) **Okanagan Valley Television Co. Ltd,** 342 Leon Ave, Kelowna, B.C. **L.P:** St. Mgr: R. G. Shapman. Dir. Tec: T. E. Wyatt. Film Buyer: R. Richardson. **D.Prgr:** 17.00-09.00 (+ 8 satellites).
2) **Calgary TV Ltd,** 955 Rideau Rd, Calgary 6, Alta. **L.P:** Gen. Mgr: D. Penn. Dir. Tec: J. McKenzie. Film Buyer: W. Wilks. **D.Prgr:** 15.00-08.30 (+ 2 satellites).
3) **Hyland Radio-TV Ltd,** 119 East St, Sault Ste. Marie, Ont.
4) **Trans-Canada Communications Ltd,** 1853 Hamilton St, Regina, Sask. **D.Prgr:** 15.00-07.00 (+ 2 satellites).
5) **Moncton Broadc. Ltd,** Knights of Pythias Bldg, Moncton, N.B.
6) **Thunder Bay Electronics Ltd,** 87 No. Hill St, Port Arthur, Ont.
7) **CKSA-TV Ltd,** 5026-50th St, Lloydminster, Alta (+ 2 satellites).
8) **Skeena Broadcasters Ltd,** Terrace, B.C. (+ 10 satellites).
9) **Sunwapta Broadc. Co. Ltd,** P.O. Box 5030, Postal St. E, Edmonton, Alta. **L.P:** St. Mgr: B. D. Alloway. Dir. Tec: T. E. Wadson. Film Buyer: G. T. Kidd. **D.Prgr:** W 15.00 (Sat 17.00)-08.00. Sun 18.00-07.30 (+ 3 satellites).
10) **La Radio du Bas St. Laurent Inc,** 13 St. Jean Baptiste, Rimouski, Que. (+ 1 satellite).
11) **Newfoundland Broadc. Co. Ltd,** Argentia, Nfld. (+ 2 satellites).
12) **Yorkton TV Co. Ltd,** 95 East Broadway, Yorkton, Sask. **L.P:** Gen. Mgr. & Film Buyer: G. S. Skinner. **D.Prgr:** Mon-Fri 13.30-08.00. Sat/Sun 19.00-08.00.
13) **Ralph Snelgrove TV Ltd,** Box 519, Barrie, Ont. **L.P:** St. Mgr: R. T. Snelgrove. Dir. Tec: B. Verwey. Film Buyer: J. Mattenley. **D.Prgr:** 14.00-06.00 (+ 3 satellites).
14) **Television du Quebec (Canada) Ltée,** P.O. Box 2026, Quebec 2. **L.P:** Gen. Mgr: J. A. Pouliot. Dir. Tec: G. Fortin. Film Buyer: G. Lovett. **D.Prgr:** ch4 13.00-06.00 (French), ch5 14.30-17.00, 19.30-06.00 (English).
15) **CFCN-TV Ltd,** Broadc. House, Calgary, Alta. **L.P:** St. Mgr: E. W. Chapman. Dir. Tec: R. W. Lamb. Film Buyer: A. Purcell. **D.Prgr:** 14.00-08.00 (+ 3 satellites).
16) **Twin Cities Television Ltd,** 460 Pemberton Terrace, Kamloops, B.C. **L.P:** St. Mgr. & Film Buyer: F. Coventry. **D.Prgr:** 18.00-09.30 (+ 16 satellites).
17) **CHAB Ltd,** 127 Main St. N, Moose Jaw, Sask. **L.P:** Gen. Mgr. & Film Buyer: S. Boyling. Dir. Tec: M. Pickford. **D.Prgr:** 17.00-07.30 (+ 1 satellite).
18) **New Brunswick Broadc. Ltd,** 14 Church St, Saint Johns, N.B. (+ 1 satellite).
19) **Cape Breton Broadc. Ltd,** 318 Charlotte St, Sydney, N.S. **D.Prgr:** 16.00-04.00 (+ 2 satellites).
20) **Newfoundland Broadc. Co. Ltd,** Prince of Wales St, St. Johns, Nfld. **L.P:** St. Mgr: C. Jamieson. Dir. Tec: O. Hierlihy. **D.Prgr:** 13.30-05.00 (+ 1 satellite).
21) (see 28).
22) **R. Nord Inc,** 70 rue Gamble, Rouyn, Que. (+ 4 satellites).
23) **Television de la Baie des Chaleurs Inc,** P.O. Box 100, Carleton, Que. **L.P:** St. Mgr. & Dir. Tec: M. Chabot. **D.Prgr:** 15.00-07.00 (+ 9 satellites).
24) **Ottawa Valley TV Co. Ltd,** 319 Pembroke St, East, Pembroke, Ont. **D.Prgr:** 15.00-05.40.
25) **CJCH Ltd,** 2885 Robbie St, Halifax, N.S. **D.Prgr:** Mon-Fri 14.30-05.00, Sat 17.00-07.00, Sun 17.00-05.30. (+ 3 satellites).
26) **R. St. CJDC,** Dawson Creek, B.C. (+ 2 satellites).
27) **Swift Current Telecasting Co. Ltd,** Swift Current, Sask. (+ 3 satellites).
28) **Central Broadc. Co. Ltd,** 10th St, Prince Albert, Sask. (+ 5 satellites).
29) (see 14).
30) **Cambrian Broadc. Ltd,** 336 Ash St, Sudbury, Ont. **D. Prgr:** 13.00-07.00 (+1 satellite).
31) **Western Manitoba Broadcasters Ltd,** 2940 Victoria Ave, Brandon, Man. (+2 satellites).
32) **CFCL-TV** P.O. Box 620, Timmins, Ont. **L.P:** Pres: J. Conrad Lavigne. Dir. Tec: R. A. Fateux. Film Buyer: T. Coles. **D. Prgr:** 14.00-06.30 (+5 satellits).
33) **Monarch Broadc. Co. Ltd,** Box 760, Medicine Hat, Alta. **L.P:** St. Mgr: F. G. Gunter. Dir. Tec: S. Gaffney. **D. Prgr:** 17.00-08.30 (+1 satellite).
34) **CHCA-TV Ltd,** Box 668, Red Deer, Alta. **L.P:** St. Mgr: W. Wilks. Dir. Tec: J. Colter. **D. Prgr:** 15.30-07.30 (+2 satellites).
35) **CHEK TV Ltd,** 3693 Epsom Dr, Victoria, B.C.
36) belongs to 20. **D. Prgr:** 12.00-05.00 (+2 satellites).
37) **CJPM-TV Inc,** P.O. Box 600, Chicoutimi, Que. **L.P:** Dir: P.J. Audette. Dir. Tec: R. Hudon. Film Buyer: C. Blain. **D. Prgr:** 17.00-05.00.
38) **Yorkton Television Co. Ltd,** 95 East Broadway, Yorkton, Sask.
39) **R. Television Sherbrooke Inc,** 3330 King St. W. Sherbrooke, Que. **L.P:** St. Mgr: P. Bruneau. Dir. Tec: R. Thieboult. Film Buyer: J. L. Gauthier. **D. Prgr:** 13.30-07.00.
40) **Ch. 7 TV Ltd,** Polo Park, Winnipeg 10, Man. **L.P:** St. Mgr: J. M. Davidson. Dir. Tec: B. Cobb. Film Buyer: J. S. Purvis. **D. Prgr:** 13.00-07.00.
41) **Lethbridge TV Ltd,** P.O. Box 1120, Lethbridge, Alta. **L.P:** Gen. Mgr: N. Botterill. **D. Prgr:** 17.00-07.30 (Approx.) (+2 satellites).
42) **Trans-Canada Communication Ltd.** Marquis, Sask.
43) **CKRT-TV Ltd,** 1 Christophe Colomb, Rivière du Loup, Que. **L.P:** St. Mgr: L. Simard. Dir. Tec: G. Gelinas. Film Buyer: G. Thibault. **D. Prgr:** 14.30-06.00 (+4 satellites).
44) **CFQC TV Ltd,** 216 First Ave North, Saskatoon, Sask. **D. Prgr:** 15.00-08.00 (+ 1 satellite).
45) **British Columbia TV Broadc. System Ltd,** Burnaby, B. C. (+3 satellites).
46) **R. St. CKNX Ltd,** Cnr. Carling Terrace, Wingham, Ont. **D. Prgr:** 17.00-06.30.
47) **Yorkton TV Co. Ltd,** 95 East Broadway, Yorkton, Sask. (Rebroadcasting the prgrs. of st. 62).
48) **Cornwall Broadc. Ltd,** Cornwall, Ont.
49) **Baton Broadc. Ltd,** 1550 McCowan Rd, Agincourt (Toronto), Ont.
50) **CHAB Ltd,** Johnstone Bldg, Moose Jaw, Sask.
51) **La Compagnie de Radiodiff. de Matane Ltd,** 155 St. Sacrament St, Matane, Que. **L.P:** Gen. Mgr: R. Lapointe. Dir. Tec: Y. Fortier. Film Buyer: O. Lapointe. **D. Prgr:** 14.30-06.00 (+6 satellites).
52) **Western Ontario Broadc. Co. Ltd,** 825 Riverside Dr. West, Windsor, Ont.
53) **Tel-Ad Co. Ltd,** Callander, Ont. (+1 satellite).
54) **London Free Press Printing Co. Ltd,** P.O. Box 2880, Terminal "A", London, Ont. **L.P:** Vice Pres: M. T. Brown. St. Mgr. & Film Buyer: R. A. Reinhart. Dir. Tec: G. A. Robitaille. **D. Prgr:** 13.30-06.00 (Sun 15.00-05.30).
55) **Télé-Metropole Corpo,** 1405 Maisonneuve St, Montreal. **L.P:** St. Mgr: R. Giguere. Dir. Tec: M. Doucet. Film Buyer: M. Bastien. **D. Prgr:** 13.00-06.00.
56) **Niagara TV Ltd,** 163 Jackson St, Hamilton, Ont. **L.P:** St. Mgr: S. J. Bibby. Dir. Tec: W. E. Jeynes. Film Buyer: S. Hebscher. **D. Prgr:** 11.30-05.00.
57) **Frontenac Broadc. Co. Ltd,** 170 Queen St, Kingston, Ont. **L.P:** Gen. Mgr: R. Hofstetter. Film Buyer: D. Lawrie. **D. Prgr:** 14.00-06.30.

58) **Canadian Marconi Co,** 405 Ogilvy Ave, Montreal 15. **L.P:** Gen. Mgr: D. W. G. Martz. Dir. Tec: J. E. Thompson. **D. Prgr:** 14.00-07.00.
59) **Kawartha Broadc. Co. Ltd,** P.O. Box 659, Peterborough, Ont. **L.P:** St. Mgr: W. Rewegan. Dir. Tec: B. Wilke. Film Buyer: G. Shale. **D. Prgr:** 14.00-06.30 (+2 satellites).
60) **Moncton Broadc. Ltd,** Moncton, N.B. (+1 satellite).
61) **R. Saguenay Ltd,** 179 Sir Wilfrid Laurier, Jonquière, Que. **L.P:** St. Mgr: G. Lemieux. Dir. Tec: P. Gilbert. Film Buyer: E. Michaud. **D. Prgr** (in French): 14.00-06.00 (+3 satellites).
62) **The Island R. Broadc. Co. Ltd,** 85 Kent St, Charlottetown. PEI. **L.P:** St. Mgr: R. F. Large. **D. Prgr:** 18.00-04.15 (+1 satellite).
63) **Bushnell TV Co. Ltd,** 1500 Merivale Rd, Ottawa 5. **L.P:** Gen. Mgr: S. W. Griffiths. Dir. Tec: A. G. Day. St. Mgr. & Film Buyer: P. Francis. **D. Prgr:** 12.30-06.00.
64) **Central Ontario TV Ltd,** 864 King St, Kitchener, Ont. **L.P:** Gen. Mgr: W. D. McGregor. Dir. Tec: P. Turcan. Film Buyer: B. Lawson. **D. Prgr:** 13.20 (Sat/Sun 14.30)-06.00.
65) **TV St. Maurice Inc,** P.O. Box 277, Trois Rivières, Que. **L.P:** Gen. Mgr: H. Audet. St. Mgr. & Dir. Tec: R. Bonneau. Film Buyer: A. Aubicon. **D. Prgr:** 14.00-06.00 (in French).

ST. PIERRE ET MIQUELON

OFFICE DE RADIODIFF TELEVISION FRANCAISE

Addr: B.P. 7, St. Pierre et Miquelon. **L.P:** see radio. **Station** (System K' 625 lines): ch K'4 0.05kW H.
D. Prgr: 23.00 (Sun 21.00)-01.30 (Sat 01.45, Sun 01.00).
TV-sets: 1.000.

U.S.A.

PRIVATE COMMERCIAL TELEVISION STATIONS

ALABAMA

WAPI-TV (Ch 13), Box 1310, Birmingham 35201; Donald D. Wear, V.P. & Gen. Mgr.
WBMG-TV (Ch 42), P.O. Box 6146, Birmingham 35209; Hugh M. Smith, Exec. V.P. & Gen. Mgr.
WBRC-TV (Ch 6), Box 389 Birmingham 35201; R. T. Schlinkert, V.P. & Gen. Mgr.
WMSL-TV (Ch 23), Mutual Savings Life Bldg, Decatur 35601; Frank Whisenant, Pres, Gen. Mgr. & Film Buyer.
WTVY-TV (Ch 4), Box 1089, Dothan 36302; F. E. Busby, Pres. & Gen. Mgr.
WOWL-TV (Ch 15), Box 2220, Florence 35630; Richard B. Biddle, Pres. & Gen. Mgr.
WAAY-TV (Ch 31) 1000 Monte Sano Blvd, S.E, Huntsville 35801; Maury Farrell, Gen. Mgr. & Sales Mgr.
WHNT-TV (Ch 19), 960 Monte Sano Blvd, Huntsville 35801; Charles F. Grisham, Pres. & Gen. Mgr.
WALA-TV (Ch 10), 210 Government St, Mobile 36602; H. Ray McGuire, Exec. V.P. & Gen. Mgr.
WKRG-TV (Ch 5), Box 1184, Mobile 36601; C. P. Persons Jr, Exec. V.P, Gen. Mgr. & Film Buyer.
WCOV-TV (Ch 20), Box 2505, Montgomery 36111; Frank Ragsdale, Exec. V.P. & Gen. Mgr.
WSFA-TV (Ch 12), 10 East Delano St, Montgomery 36105; Robert Villar, Gen. Mgr.
WKAB-TV (Ch 32), Box 3236, Montgomery 36109; Robert L. Tuttle, St. Mgr.
WSLA-TV (Ch 8), Box 1016, Selma 36702; Cyril G. Brennan, Gen. Mgr.
WCFT-TV (Ch 33), Box 2427, Tuscaloosa 35402; Charles Williamson, Gen. Mgr.

ALASKA

KENI-TV (Ch 2), 4th Ave, Theatre Bldg, Anchorage 99501; Alvin O. Bramstedt, Pres. & Gen. Mgr.
KTVA-TV (Ch 11), Box 2200, Anchorage 99501; A. G. Hiebert, Pres.
KFAR-TV (Ch 2), P.O. Box 910, Fairbanks 99701; Don Andon, St. Mgr.
KTVF-TV (Ch 11), 3rd & Lacey Sts, Fairbanks 99701; John Griffin, St. Mgr. & Comm. Mgr.
KINY-TV (Ch 8), 231 S. Franklin St, Juneau 99801; Jack Quisenberry, Gen. Mgr.
KIFW-TV (Ch 13), Box 299, Sitka 99835; Roy Paschal, Pres. Gen. Mgr. & Film Buyer.

ARIZONA

KOOL-TV (Ch 10), 511 West Adams St, Phoenix 85003; Homer Lane, V.P. & Gen. Mgr.
KPHO-TV (Ch 5), 631 N. First Ave, Phoenix 85004; Richard B. Rawls, V.P. & Gen. Mgr.
KTAR-TV (Ch 12), 1101 N. Central Ave, Phoenix 85004; Richard Lewis, Chmn. of the board.
KTVK-TV (Ch 3), 3435 N. 16th St, Phoenix 85016; Burton La Dow, Gen. Mgr.
KGUN-TV (Ch 9), 2175 N. Sixth Ave, Tucson 85703; Fred Vance, V.P. & Gen. Mgr.
KOLD-TV (Ch 13), 115 W. Drachman St, Tucson 85705; Paul Plunkett, V.P. & Gen. Mgr.
KVOA-TV (Ch 4), 209 W. Elm St, Tucson 85705; Gordon Hamilton, St. Mgr, Sales Mgr. & Film Buyer.
KBLU-TV (Ch 13), 1322 Fourth Ave, Yuma 85364; Robert Crites, Pres. & Gen. Mgr.
KIVA-TV (Ch 11), P.O. Box 1671, Yuma 85364; Leavenworth Wheeler, Gen. Mgr. & Film Buyer.
KZAZ-TV (Ch-11), 134 Grand Ave, Nogales 85621 (sta. also serves Tucson); Bernie Perlin, St. Mgr.

ARKANSAS

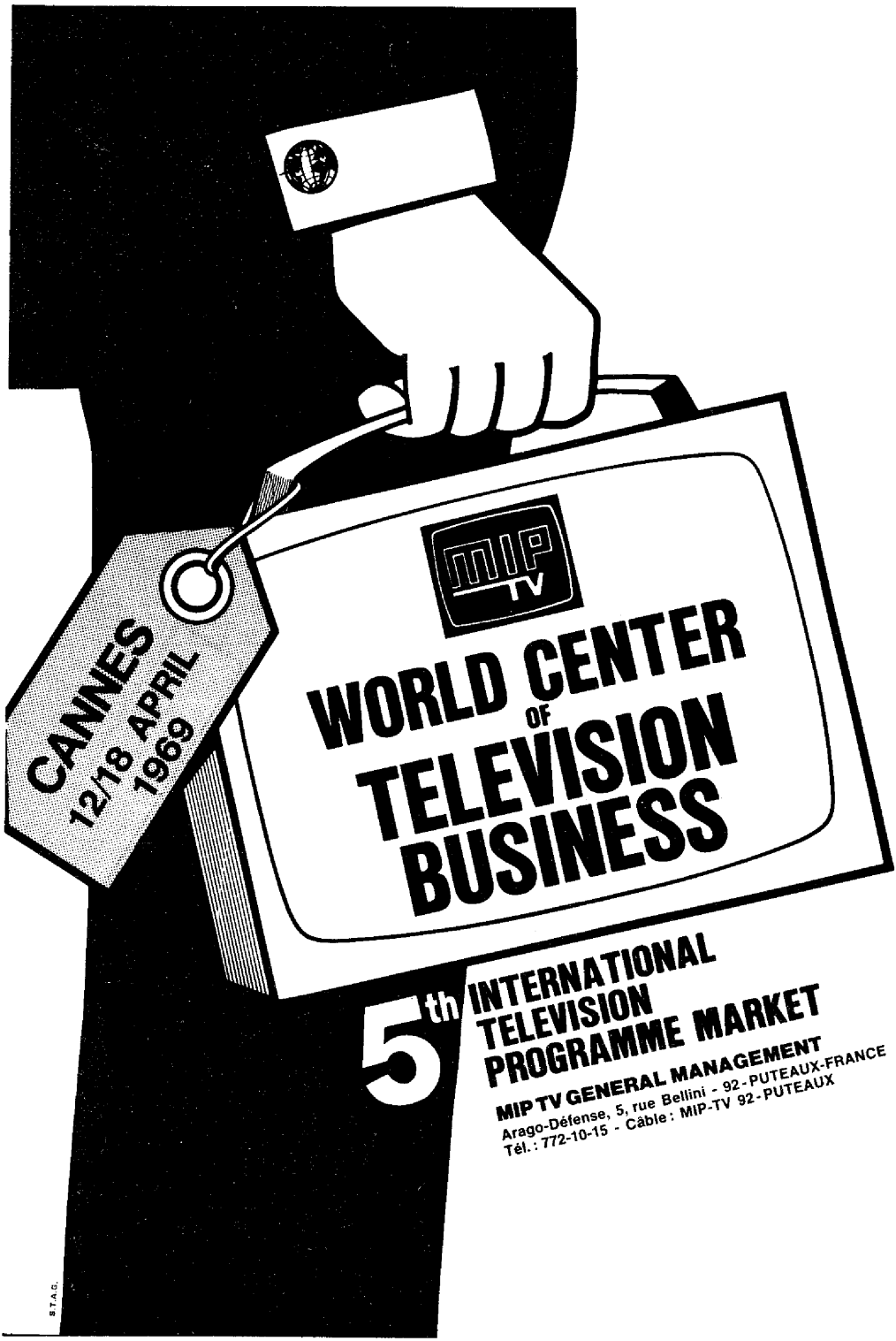
KTVE-TV (Ch 10), P.O. Box 791, El Dorado 71731; James T. Hite, Exec. V.P. & Gen. Mgr.
KFSA-TV (Ch 5), 101 N. Fourth St. Ft. Smith 72901; J. W. Slates, V.P, Gen. Mgr, Sales Mgr. & Film Buyer.
KAIT-TV (Ch 8), Box 790, Jonesboro 72402; George Hernreich, Gen. Mgr. & Film Buyer.
KARK-TV (Ch 4), 1001 Spring St, Little Rock 72203 Rob. L. Brown, V.P. & Gen. Mgr.
KATV-TV (Ch 7), 310 W. Third St, Little Rock 72201; Robert Doubleday, V.P. & Gen. Mgr.
KTHV-TV (Ch 11) Box 269, Little Rock 72203; B. G. Robertson, V.P. & Gen. Mgr.

CALIFORNIA

KERO-TV (Ch 23), 321-21st St, Bakersfield 93305; Kenneth R. Croes, V.P. & Gen. Mgr.
KBAK-TV (Ch 29), 2210 Chester Ave, Bakersfield 93304; Burt I. Harris, Pres. & Film Buyer.
KLYD-TV (Ch 17), 2831 Eye St, Bakersfield 93301; Paul Battisti, V.P. & Gen. Mgr.
KNBC-TV (Ch 4), 3000 W. Alameda, Burbank 91503; Robert Howard, V.P. & Gen. Mgr.
KSHL-TV (Ch 12), Box 489, Chico 95927; M. F. Woodling, Mgr.
KIEM-TV (Ch 3), Box 1021, Eureka 95501; Paul Hoff, V.P. & Gen. Mgr.
KVIQ-TV (Ch 6), Box 1019, Eureka 95502; Sam Horel, Gen. Mgr, Nat. Sales Dir. & Film Buyer.
KAIL-TV (Ch 53), Box 5160, Fresno 93744; B. L. Golden. Pres.
KFRE-TV (Ch 30), 733 L. St, Fresno 93701; James H. Burgess, Gen. Mgr.
KICU-TV (Ch 43), 1141 Market St, Fresno 94103; Hal Keener, Gen. Mgr.
KJEO-TV (Ch 47), Box 1708, Fresno 93717; Ray Grant, Gen. Mgr.
KMJ-TV (Ch 24), 1544 Van Ness, Fresno 93721; John I Edwards, Mgr. & Film Buyer.
KABC-TV (Ch 7), Prospect & Talmadge Sts, Hollywood 90027; John E. Campbell, V.P.
KCOP-TV (Ch 13), 915 N. LaBrea Ave, Hollywood 90038; John Hopkins, Pres.
KHJ-TV (Ch 9), 5515 Melrose Ave, Los Angeles 90038; Malcolm C. Klein, Gen. Mgr.
KMEX-TV (Ch 34), 721 N. Bronson Ave, Hollywood 90038; Julian Kaufman, V.P.
KNXT-TV (Ch 2), 6121 Sunset Blvd, Los Angeles 90028; Ray L. Beindorf, V.P. & Gen. Mgr.
KTTV-TV (Ch 11), 5746 Sunset Blvd, Los Angeles 90028; Charles D. Young, V.P. & Gen. Mgr.
KWHY-TV (Ch 22), 5700 Sunset Blvd, Los Angeles 90028; Dean Cull, Operations Mgr.
KTLA-TV (Ch 5), 5800 Sunset Blvd, Hollywood 90028; Carlo Anneke, Gen. Mgr.
KTVU-TV (Ch 2), 1 Jack London Square, Oakland 94607; Frank G. King, V.P. & Gen. Mgr.
KRCR-TV (Ch 7), 2770 Pioneer Dr, Redding 96001; Richard Green, Gen. Mgr.
KCRA-TV (Ch 3), 310 Tenth St, Sacramento 95814; Jon S. Kelly, Gen. Mgr. & Partner.
KXTV-TV (Ch 10), 601 Seventh Ave, Sacramento 95818; Robert Wilson, V.P. & Gen. Mgr.
KSBW-TV (Ch 8), Box 1651, Salinas 93903; John C. Cohan, Pres.
KAAR-TV (Ch 39), 8330 Engineer Rd, San Diego 92111; William Sample Jr, Pres. & Gen. Mgr.
KFMB-TV (Ch 8), Fifth & Ash St, San Diego 92101; George Whitney, V.P. & Gen. Mgr.
KOGO-TV (Ch 10), Box 628, San Diego 92112; Clayton H. Brace, V.P. & Gen. Mgr.
KGO-TV (Ch 7), 277 Golden Gate Ave, San Francisco 94102; Davis M. Sacks, V.P. & Gen. Mgr.
KPIX-TV (Ch 5), 2655 Van Ness, San Francisco 94109; Fred Walker, Gen. Mgr.
KRON-TV (Ch 4), 929 Mission St, San Francisco 94103; A. H. Constant, V.P. & Gen. Mgr.
KNTV-TV (Ch 11), 645 Park Ave, San Jose 95110; Robert Hosfeldt, Gen. Mgr, Prgr. Dir. & Film Buyer.
KEYT-TV (Ch 3), 730 Miramonte Drive, Santa Barbara 93105; Leslie H. Norins, V.P. & Gen. Mgr.
KCOY-TV (Ch 12), 1503 N. McClelland, Santa Maria 93454; Bob Williams, Gen. Mgr, Nat. Sales Mgr. & Film Buyer.
KOVR-TV (Ch 13), 225 E. Miner Ave, Stockton 95202; Ramsey Elliott, Mgr.
KSJV TV (Ch 21), Box 4734, Fresno; Cy Newman, Pres. & Gen. Mgr.
KMTW-TV (Ch 52), Kaiser Center, 300 Lake Side Dr, Oakland 94604; L. William White, St. Mgr.
KLXA-TV (Ch 40), 816 N. Highland Ave, Hollywood 90038; Gary Greene, St. Mgr.
KITR-TV (Ch 30), Box 41108, Los Angeles 90041; C. S. McDaniel, Gen. Mgr.
KSAN-TV (Ch 32), 1141 Market St, San Francisco; Norwood J. Patterson, Exec. Dir.
KSBY-TV (Ch 6), Box 1368, San Luis Obispo 93402; Art Hapgood, St. Mgr.

COLORADO

KKTV-TV (Ch 11), 2110 Colorado Springs 80901; Rush Evans, Exec. V.P. & Gen. Mgr.
KRDO-TV (Ch 13), 399 S. Eighth St, Colorado Springs 80905; Harry W. Hoth Jr, Pres.


CANNES
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MIP TV GENERAL MANAGEMENT
Arago-Défense, 5, rue Bellini - 92-PUTEAUX-FRANCE
Tél.: 772-10-15 - Câble: MIP-TV 92-PUTEAUX
S.T.A.G.

U.S.A.

KBTV-TV (Ch 9), 1089 Bannock St, Denver 80204; Alvin Flanagan, Exec. V.P. & Gen. Mgr.
KLZ-TV (Ch 7), 131 Spear St, Denver 80204; Hugh B. Terry, Pres. & Gen. Mgr.
KOA-TV (Ch 4), 1044 Lincoln St, Denver 80217; William Grant, Pres. & Gen. Mgr.
KWGN-TV (Ch 2), 550 Lincoln St, Denver 80203; Richard E. Jungers, V.P. & Gen. Mgr.
KREX-TV (Ch 5), Box 789, Grand Junction 81502; Rex Howell, Chmn. of Board.
KOAA-TV (Ch 5), 2226 TV Lane, Pueblo 81003; James Croll, St. Mgr.
KREZ-TV (Ch 6), 171 E. 7th St, Durango 81301; Jack Welch, St. Mgr.
KREY-TV (Ch 10), 610 N. 1st St, Montrose 81401; Carl Anderson, St. Mgr. & Exec. V.P.
KTVS-TV (Ch3), State Hwy. 61, Sterling; Carl Occhipinti, Resident Mgr.

CONNECTICUT

WHCT-TV (Ch 18), 555 Asylum St, Hartford; Keigler E. Flake, Gen. Mgr.
WTIC-TV (Ch 3), 3 Constitution Plaza, Hartford 06103; Leonard J. Patricelli, Pres.
WNHC-TV (Ch 8), 135 College St, New Haven 06510; Howard Maschmeier, Gen. Mgr.
WATR-TV (Ch 20), 440 Meadow St, Waterbury 06702; Harold Thomas, Pres.
WHNB-TV (Ch 30), 1422 New Britain Ave, West Hartford 06110; Robert W. Bray, V.P. & Gen. Mgr.

WASHINGTON, D.C.

WDCA-TV (Ch 20), 5202 River Rd, Washington 20016; Milton Grant, Pres. & Gen. Mgr.
WMAL-TV (Ch 7), 4461 Connecticut Ave, N.W. Washington 20008; Frederick Houwink, V.P.
WOOK-TV (Ch 14), 5321 First Place, N.E. Washington 20011; E. Carlton Myers Jr, Gen. Mgr.
WRC-TV (Ch 4), 4001 Nebraska Ave, N.W. Washington 20016; Joseph Goodfellow, V.P. & Gen. Mgr.
WTTG-TV (Ch 5), 5151 Wisconsin Ave, N.W. Washington 20016; Robert M. Bennett, V.P. & Gen. Mgr.
WTOP-TV (Ch 9), 40th & Brandywine Sts N.W. Washington; George Hartford, V.P. & Gen. Mgr.

FLORIDA

WINK-TV (Ch 11), 2824 Palm Beach Blvd, Fort Myers 33901; A. F. Bauer, V.P. & Gen. Mgr.
WESH-TV (Ch 2), P.O. Box 1551, Daytona Beach 32015; Thomas S. Gilchrist Jr, V.P. & Gen. Mgr.
WTVX-TV (Ch 34), U.S. Hwy. 1, Fort Pierce 33450; W. E. Minshall, Pres. & Gen. Mgr.
WFGA-TV (Ch 12), 1070 E. Adams St, Jacksonville 32202; Ralph Nimmons, V.P. & St. Mgr.
WJKS-TV (Ch 17), Box 17000, Jacksonville 32216; Fred P. Shawn, V.P. & Gen. Mgr.
WJXT-TV (Ch 4), 1851 Southampton Rd, Jacksonville 32207; Glenn Marshall, Pres. & Gen. Mgr.
WCKT-TV (Ch 7), 1401 79th St, Causeway Miami 33141; Sidney Ansin, Pres.
WLBW-TV (Ch 10), 3900 Biscayne Blvd, Miami 33137; Thomas Welstead, V.P. & Gen. Mgr.
WTVJ-TV (Ch 4), 316 N. Miami Ave, Miami 33128; William Brazzil, V.P. in charge.
WDBO-TV (Ch 6), Box 1833, Orlando 32802; Joseph Sinclair, Pres. & Gen. Mgr.
WFTV-TV (Ch 9), Box 5795, Orlando 32805; Joseph L. Brechner, Pres. & Gen. Mgr.
WPTV-TV (Ch 5), 5 Cocoanut Row, Palm Beach 33480; Chester E. Pike Jr, V.P. & Gen. Mgr.
WJHG-TV (Ch 7), 107 Harrison Ave, Panama City 32401; James Tighe, St. Mgr.
WSUN-TV (Ch 38), Municipal Pier, St. Petersburg 33701; George Fee, Man. Dir.
WLCY-TV (Ch 10), 2429 Central Ave, St. Petersburg 33713; Sam Rahall, Pres. & Gen. Mgr.
WCTV-TV (Ch 6), Box 3547, Tallahassee 32303; Joseph F. Hosford, Gen. Mgr.
WFLA-TV (Ch 8), Box 1410, Tampa 33601, George W. Harvey, V.P. & Gen. Mgr.
WTVT-TV (Ch 13) Box 1198, Tampa 33601; E. B. Dodson, V.P. & Mgr.
WEAT-TV (Ch 12), Box 70, West Palm Beach 33402; John D. MacArthur, Pres.
WEAR-TV (Ch 3), Box 431, Pensacola 32502; Milt de Reyna, Gen. Mgr. & Film Buyer.

GEORGIA

WALB-TV (Ch 10), Stuart Ave, Albany 31705; Raymond E. Carow, V.P.
WAGA-TV (Ch 5), P.O. Box 4207, Atlanta 30302; H. W. Ray, Gen. Mgr.
WAII-TV (Ch 11), 1611 W. Peachtree St, N.E. Atlanta 30309; Joseph Higgins, V.P. & Gen. Mgr.
WSB-TV (Ch 2), 1601 W. Peachtree St, N.E. Atlanta 30309; Don Elliot Heald, Gen. Mgr.
WJBF-TV (Ch 6), P.O. Box 1404, Augusta 30903; Asa Stallworth, V.P.
WRBL-TV (Ch 3), Box 270, Columbus 31902; J. W. Woodruff Jr, Pres. & Gen. Mgr.
WTVM-TV (Ch 9), Box 1848, Columbus 31902; Joe Windsor, V.P. & Gen. Mgr.
WMAZ-TV (Ch 13), Bankers' Insurance Bldg, Macon 31201; Frank Crowther, Gen. Mgr.
WSAV-TV (Ch 3), Box 2429, Savannah 31043; Harben Daniel, Pres. & Gen. Mgr.
WTOC-TV (Ch 11), Box 858, Savannah 31402; F. S. Knight, Pres. & Gen. Mgr.

HAWAII

KGMB-TV (Ch 9), Box 581, Honolulu 96809; Cecil Heftel, Pres. & Gen. Mgr.
KHON-TV (Ch 2), 1170 Auahi St, Honolulu 96814; Daniel Kawakami, St. Mgr.
KHVH-TV (Ch 4), 1290 Ala Moana Blvd, Honolulu 96814; Lawrence S. Berger, Pres.
KTRG-TV (Ch 13), 2227-A Kalahaua Ave, Honolulu 96815; David Watumull, Pres. & Gen. Mgr.
KHAW-TV (Ch 11) (Satellite of KHON-TV at Hilo)
KHVO-TV (Ch 13) (Satellite of KHVH-TV at Hilo)
KPUA-TV (Ch 9) (Satellite of KGMB-TV at Hilo)
KAII-TV (Ch 7) (Satellite of Khon-TV at Wailuku)
KMAU-TV (Ch 3) (Satellite of KGMB-TV at Wailuku)
KMVI-TV (Ch 12) (Satellite of KHVH-TV at Wailuku)

IDAHO

KBOI-TV (Ch 2), 1007 W. Jefferson St, Boise 83702; Westerman Whillock, Pres. & Gen. Mgr.
KTVB-TV (Ch 7), 700 Crestline Dr, Boise 83702; Robert Krueger, Exec. V.P. & Gen. Mgr.
KIFI-TV (Ch 8), Box 2148, Idaho Falls 83401; J. M. Brady, Pres, Gen. Mgr. & Nat. Sales Mgr.
KID-TV (Ch 3), 1255 E. 17th St, Idaho Falls 83401; J. Allen Jensen, Exec. V.P. & Gen. Mgr.
KMVT-TV (Ch 11), Elizabeth at Eastland, Twin Falls 83301; Gordon Glassman, Pres. & Gen. Mgr.
KTVR-TV (Ch 7) (Satellite of KTVB-TV)

ILLINOIS

WCIA-TV (Ch 3), 509 S. Neil St, Champaign 61820; August C. Meyer, Pres.
WCHU-TV (Ch 33) (Satellite of WICS-TV at Champaign)
WFLD-TV (Ch 32), Television Centre, Chicago 60611; Sterling C. Quinlan, Pres. & Gen. Mgr.
WBBM-TV (Ch 2), 630 N. McClurg St, Chicago 60611; Edward Kenefick, V.P. & Gen. Mgr.
WBKB-TV (Ch 7), 190 N. State St, Chicago 6061; Richard A, O'Leary, V.P. & Gen. Mgr.
WCIU-TV (Ch 26), 141 W. Jackson, Chicago 60604; J. W. O'Connor, Pres. & Gen. Mgr.
WGN-TV (Ch 9), 2501 Bradley Place, Chicago 60618; B. H. Berentson, V.P. & Gen. Mgr.
WMAQ-TV (Ch 5), Merchandise Mart, Chicago 60654; Robert Lemon, V.P. & Gen. Mgr.
WAND-TV(Ch 17), Box 631, Decatur 62521; Len Carl, V.P. & Gen. Mgr.
WEEK-TV (Ch 25), 2907 Springfield Rd, East Peoria 61611; Fred C. Mueller, Pres. & Gen. Mgr.
WSIL-TV (Ch 3), 21 W. Poplar St, Harrisburg 62946; O.L. Turner, Mgr. & Film Buyer.
WQAD-TV (Ch 8), 3003 Park 16th St, Moline 61265; Arthur M. Swift, Exec. V.P. & Gen. Mgr.
WIRL-TV (Ch 19), 109 S. W. Jefferson, Peoria 61602; Howard N. Frederick, V.P. & Gen. Mgr.
WMBD-TV (Ch 31), 212 S. W. Jefferson Ave, Peoria 61602; William L. Brown, Gen. Mgr.
WGEM-TV (Ch 10), Hotel Quincy, Quincy 62301; Joseph Bonansinga, V.P, Treasurer & Gen. Mgr.
WCEE-TV (Ch 23), Box 957, Rockford 61105; Earl Hickerson, V.P. & Gen. Mgr.
WHBF-TV (Ch-4), Telco Bldg, Rock Island 61201; Leslie C. Johnson, V.P. & Gen. Mgr.
WTVO-TV (Ch 17), Box 470, Rockford 61105; Harold Froelich, Gen. Mgr.
WREX-TV (Ch 13), W. Auburn & Winnebago Rds, Rockford 61103; J. M. Baisch, V.P. & Gen. Mgr.
WICS-TV (Ch 20), 2680 E. Cook, Springfield 62703; Milton D. Friedland, V.P. & Gen. Mgr.
WICD-TV (Ch 24) (Satellite of WICS-TV at Danville)
WWEQ-TV (Ch 35) (Satellite of WEEK-TV at La Salle)

INDIANA

WEHT-TV (Ch 25), Box 395, Evansville 47704; William R. Hight, Gen. Mgr. & Film Buyer.
WFIE-TV (Ch 14), 1115 Mt. Auburn Rd, Evansville 47712; Kelly Atherton, V.P. & Gen. Mgr.
WTVW-TV (Ch 7), 405 Carpenter St. Evansville 47708; F. Berry Smith, V.P. & Gen. Mgr.
WPTA-TV (Ch 21), 3333 Butler Rd. Ft. Wayne 46804; Victor H. Sterling, Gen. Mgr. & Film Buyer.
WANE-TV (Ch 15), 2915 W. State Blvd, Ft. Wayne 46807; Reid G. Chapman, V.P, Gen. Mgr. & Film Buyer.
WKJG-TV (Ch 33), 2633 W. State Blvd, Ft. Wayne 46808; Hilliard Gates, V.P. & Gen. Mgr.
WFBM-TV (Ch 6), 1330 N. Meridan St, Indianapolis 46202; Eldon Campbell, V.P. & Gen. Mgr.

WISH-TV (Ch 8), Box 1959, Indianapolis 46206; Robert B. McConnell, V.P. & Gen. Mgr.
WTTV-TV (Ch 4), 3490 Bluff Rd, Indianapolis 46217; Robert G. Holben, Gen. Mgr.
WLWI-TV (Ch 13), 1401 N. Meridan St, Indianapolis 46202; John M. Slocum; V.P. & Gen. Mgr.
WFAM-TV (Ch 18), McCarty Lane, Lafayette 47905; Richard W., Long, Gen. Mgr.
WTAF-TV (Ch 31), P.O. Box 631, Marion 46952; Gene G. Cook, Gen. Mgr.
WLBC-TV (Ch 49), Box 271, Muncie 47302; Don Burton, Pres, Treasurer & Gen. Mgr.
WNDU-TV (Ch 16), P.O. Box 16, South Bend 46624; William T. Hamilton, V.P. & Gen. Mgr.
WSBT-TV (Ch 22), 300 W. Jefferson Blvd, South Bend 46601; Jack E. Douglas, Gen. Mgr.
WSJV-TV (Ch 28), Box 28, South Bend 46624; Don E. Fuller, Gen. Mgr.
WTHI-TV (Ch 10), 918 Ohio St, Terre Haute 47801; Anton Hulman Jr, Pres. & Gen. Mgr.
WTWO-TV (Ch 2), Box 299, Terre Haute 47808; John T. Gelder, Jr. Exec. V.P. & Gen. Mgr.

IOWA
WOI-TV (Ch 5), WOI-TV Bldg, Ames 50010; Robert C. Mulhall, Gen. Mgr. & Film Buyer.
KCRG-TV (Ch 9), First Ave. & First St, S.W. Cedar Rapids 52404; Edwin J. Lasko, Gen. Mgr.
WMT-TV (Ch 2), P.O. Box 1111, Cedar Rapids 52406; W. B. Quarton, Pres.
WOC-TV (Ch 6), 805 Brady St, Davenport 52803; David Palmer, Pres. & Treasurer.
KRNT-TV (Ch 8), Ninth & Pleasant Sts, Des Moines 50309; Robert Dillon, Gen. Mgr.
WHO-TV (Ch 13), 1100 Walnut St, Des Moines 50309; Robert H. Harter, V.P. & Gen. Mgr.
KVFD-TV (Ch 21), Television Square, Fort Dodge 50501; Ed Breen, Pres. & Film Buyer.
KGLO-TV (Ch 3), Second & Pennsylvania, Mason City 50401; Lloyd Loers, St. Mgr.
KTVO-TV (Ch 3), KTVO Bldg, Ottumwa 52501; Dan C. Palen, Gen. Mgr.
KTIV-TV (Ch 4), Tenth & Grandview, Sioux City 51103; Dietrich Dirks, Pres. & Gen. Mgr.
KVTV-TV (Ch 9), Seventh & Douglas Sts, Sioux City 51101; William F. Turner, Gen. Mgr.
KWWL-TV (Ch 7), E. Fourth & Franklin Sts, Waterloo 50703; Thomas L. Young, Exec. V.P.

KANSAS
KTVC-TV (Ch 6), Box 157, Dodge City, 67801; Wendell Elliott, V.P.
KOAM-TV (Ch 7), Box 659, Pittsburg 6676; R. E. Wade, V.P. & Film Buyer.
WIBW-TV (Ch 13), Box 119, Topeka 66601; Thad M. Sandstrom, V.P. & Gen. Mgr.
KAKE-TV (Ch 10), 1500 N.W. St, Wichita 67203; Martin Umansky, V.P. & Gen. Mgr.
KARD-TV (Ch 3), 833 N. Main St, Wichita 67203; C. E. Hendriksen V.P. Gen. Mgr. & Sales Mgt
KTVH-TV (Ch 12), 2815 E. 37th St, Wichita 67216; M. Dale Larsen, V.P. & Gen. Mgr.
KGLD-TV (Ch 11) (Satellite of KARD-TV at Garden City)
KUPK-TV (Ch 13) (Satellite of KAKE-TV at Garden City)
KLOE-TV (Ch 10) (Satellite of KAYS-TV at Goodland)
KCKT-TV (Ch 2) (Satellite of KARD-TV at Great Bend)
KAYS-TV (Ch 7) Box 817, Hays; Robert E. Schmidt, Gen. Mgr.

KENTUCKY
WLTV-TV (Ch 13), Box 1198, Bowling Green 42101; J. M. Walters, V.P, Gen. Mgr. & Film Buyer.
WKYT-TV (Ch 27), Box 655, Lexington 40501; L. C. Redmon, Gen. Mgr. & Nat. Sales Mgr.
WHAS-TV (Ch 11), 525 W. Broadway, Louisville 40202; Victor A. Sholis, Pres. & St. Dir.
WAVE-TV (Ch 3), 725 S. Floyd St, Louisville 40203; T. Ballard Morton, Pres.
WLEX-TV (Ch 18), Box 1457, Lexington 40501; Harry G. Barfield, V.P, Gen. Mgr. & Film Buyer.
WLKY-TV (Ch 32), 3947 Park Dr, Louisville 40216; Ed Shadburne, Gen. Mgr.
WPSD-TV (Ch 6), Box 1037, Paducah 42001; Sam Livingston, Gen. Mgr.

LOUISIANA
KALB-TV (Ch 5), 605-11 Washington St, Alexandria 71301; Robert E. Miller, Gen. Mgr.
WAFB-TV (Ch 9), 844 Government St, Baton Rouge 70802; Tom E. Gibbens, Pres. & Gen. Mgr.
WBRZ-TV (Ch 2), 1650 Highland Rd, Baton Rouge 70802; Douglas L. Manship, Pres. & Gen. Mgr.
KATC-TV (Ch 3), Box 3347, Lafayette 70504; William Patton, Gen. Mgr.
KLFY-TV (Ch 10), Box 3687, Lafayette 70504; Thomas G. Pears, Gen. Mgr.
KPLC-TV (Ch 7), 320 Division St, Lake Charles 70601; Pelham Mills Jr, Pres.
KNOE-TV (Ch 8), Knoe Rd, Monroe 71201; Paul H. Goldman, Exec. V.P. & Gen. Mgr.
WDSU-TV (Ch 6), 520 Royal St, New Orleans 70130; A. Louis Read, Pres.
WVUE-TV (Ch 12), 1422 Cleveland Ave, New Orleans 70112; Douglas J. Elleson, V.P. & Gen. Mgr
WWL-TV (Ch 4), 1024 N. Rampart St, New Orleans 70116; J. Michael Early, V.P. & Gen. Mgr.
KSLA-TV (Ch 12), Box 92, Shreveport 71102; Winston B. Linam, V.P. & Film Buyer.
KTAL-TV (Ch 6), 3150 N. Market St, Shreveport 71107; Walter Hussman, Pres.
KTBS-TV (Ch 3), 312 E. Kings Highway, Shreveport 71104; E. Newton Wray, Pres. & Gen. Mgr.
WWOM-TV (Ch 26), International Trade Mart, Canal St, New Orleans; David Wagenvoord, Pres. & Gen. Mgr.

MAINE
WABI-TV (Ch 5), 35 Hildreth St, Bangor 04401; Walter Dickson, Pres. & Gen. Mgr.
WEMT-TV (Ch 7), 41 Farm Rd, Bangor 04401; William H. Hart, V.P. & Sales Mgr.
WLBZ-TV (Ch 2), Box 732, Bangor 04401; Rudolph Marcoux, Mgr. & Film Buyer.
WCHS-TV (Ch 6), 579 Congress St, Portland 04101; Jack Atwood, V.P. & Gen. Mgr.
WGAN-TV (Ch13), 390 Congress St, Portland 04101; Donald Moeller, V.P. & Gen. Mgr.
WMTW-TV (Ch 8), Congress Bldg, Portland 04101; Robert Maynard, Gen. Mgr. & Sales Mgr.
WAGM-TV (Ch 8), Box 749, Presque Isle 04769; Stanley Lyons, V.P. & Gen. Mgr.

MARYLAND
WBAL-TV (Ch 11), 3800 Hooper Ave, Baltimore 21211; Brent Gunts, V.P. & Gen. Mgr.
WJZ-TV (Ch 13), Television Hill, Baltimore 21211; David Henderson, Gen. Mgr.
WMAR-TV (Ch 2), 6400 York Rd, Baltimore 21212; Donald Campbell Gen. Mgr.
WBOC-TV (Ch 16), Radio Park, Salisbury 21801; Charles Truitt, V.P. & Gen. Mgr.
WMET-TV (Ch 24), 4340 Park Heights Ave, Baltimore 21215; Pierre D. Eaton, V.P. & Gen. Mgr.

MASSACHUSETTS
WBZ-TV (Ch 4), 1170 Soldiers Field Rd, Boston 02134; Lamont L. Thompson, Gen. Mgr.
WHDH-TV (Ch 5), 50 Morrissey Blvd, Boston 02125; Harold Clancy, Exec. V.P.
WSBK-TV (Ch 38), 25 Granby St, Boston 02215; William J. Flynn, Gen. Mgr.
WNAC-TV (Ch 7), 21 Brookline Ave, Boston 02215; William McCormick, V.P. & Gen. Mgr.
WTEV-TV (Ch 6), Television Center, New Bedford 02740; Vance L. Eckersley, Gen. Mgr.
WHYN-TV (Ch 40), 1300 Liberty St, Springfield 01104; Charles DeRose, V.P. & Gen. Mgr.
WWLP-TV (Ch 22), Box 2210, Springfield 01101; William Putnam, Pres. & Gen. Mgr.
WCDC-TV (Ch 19) (satellite of WTEN-TV in Albany, N.Y. at Adams, Mass.)
WKBG-TV (Ch 56), 1050 Commonwealth Ave, Brookline; James Lynagh, Gen. Mgr.
WRLP-TV (Ch 32) (Satellite of WWLP-TV in Springfield at Greenfield)
WJZB-TV (Ch 14) (Affiliate operation of WWLP-TV in Springfield at Worcester).

MICHIGAN
WWTV-TV (Ch 9), Box 627, Cadillac 49601; Gene Eilerman, V.P. & Gen. Mgr.
CKLW-TV (Ch 9), Guardian Bldg, Detroit 48226; S. Campbell Ritchie, Pres. & Gen. Mgr.
WJBK-TV (Ch 2), 7441 Second Blvd, Detroit 48202; Lawrence Carino, V.P. & Gen. Mgr.
WWJ-TV (Ch 4), 622 Lafayette Blvd, Detroit 48226; James Schiavone, Gen. Mgr.
WJRT-TV (Ch 12), 2302 Lapeer Rd, Flint 48503; Albert J. Gillen, Exec. V.P.
WOOD-TV (Ch 8), 120 College Ave, S.E. Grand Rapids 49502; Willard Schroeder, V.P. & Gen. Mgr.
WZZM-TV (Ch 13), Television Center, Grand Rapids 49502; William C. Dempsey, Exec. V.P. & Gen. Mgr.
WILX-TV (Ch 10), Box 380, Jackson 49204; William J. Hart, Gen. Mgr. & Film Buyer.
WKZO-TV (Ch 3), 590 W. Maple St, Kalamazoo 49001; Carl E. Lee, Exec. V.P. & Gen. Mgr.
WJIM-TV (Ch 6), E. Saginaw at Howard St, Lansing 48912; Harold F. Gross, Pres.
WLUC-TV (Ch 6), Box 479, Marquette 49855; Elroy E. Strand, Gen. Mgr. & Nat. Sales Mgr.
WKNX-TV (Ch 57), 221 S. Washington Ave, Saginaw 48607; William J. Edwards, Pres. & Gen. Mgr.
WNEM-TV (Ch 5), 5700 Becker Rd, Saginaw 48601; James Gerity Jr, Pres. & Gen. Mgr.
WKBD-TV (Ch 50), Box 359, Southfield 48077; Richard L. Freeman, Gen. Mgr.
WXYZ-TV (Ch 7), 20777 W.10 Mile Rd, Southfield 48076; John Campbell, Pres. & Gen. Mgr.
WPBN-TV (Ch 7), Paul Bunyan Bldg, Traverse City 49684; Harold Lipson, Gen. Mgr.
WTOM-TV (Ch 4) (Affiliate WPBN-TV in Traverse City at Cheboygan)
WWUP-TV (Ch 10) (Satellite of WWTV-TV in Cadillac at Sault Ste. Marie)

MINNESOTA

KCMT-TV (Ch 7), Box 614, Alexandria 56308; Glenn W. Flint, V.P. & Gen. Mgr.
KMMT-TV (Ch 6), Austin 55912; Bob Gardner, Gen. Mgr.
KDAL-TV (Ch 3), 10 E. Superior, Duluth 55802; Odin S. Ramsland, Gen. Mgr.
WDIO-TV (Ch 10), 10 Observation Rd, Duluth 55811; Frank Befera, Pres. & Gen. Mgr.
WDSM-TV (Ch 6), 230 E. Superior St, Duluth 55802; Robert J. Rich, Gen. Mgr.
KEYC-TV (Ch 12), P.O. Box 12, Mankato 56001; Donald Harrer, St. Mgr.
KMSP-TV (Ch 2), Fodhay Tower, Minneapolis 55402; Donald Swartz, Pres. Gen. Mgr. & Film Buyer.
WCCO-TV (Ch 4), 50 S. Ninth St, Minneapolis 55402; F. Van Konynenburg, Pres.
WTCN-TV (Ch 11), 2925 Dean Blvd, Minneapolis 55416; Robert C. Fransen, V.P. & Gen. Mgr.
KROC-TV (Ch 10), 100 First Ave. Bldg, Rochester 55901; David Gentling, Gen. Mgr.
KSTP-TV (Ch 5), 3415 University Ave, St. Paul 55114; Stanley S. Hubbard, Pres. & Gen. Mgr.
KNMT-TV (Ch 12) (Affiliate of KCMT-TV in Alexandria at Walker)

MISSISSIPPI

WLOX-TV (Ch 3), Buena Vista Hotel, Biloxi 39533; Ray Butterfield, Gen. Mgr.
WCBI-TV (Ch 4), Box 271, Columbus 39702; William Whitfield, Gen. Mgr.
WABG-TV (Ch 6), Box 414, Greenwood 38930; Cy N. Bahakel, Pres. & Gen. Mgr.
WDAM-TV (Ch 7), Box 1649, Hattiesburg 39401; Marvin Reuben, Gen. Mgr. & Film Buyer.
WJTV-TV (Ch 12), Box 8187, Jackson 39204; L. M. Sepaugh, Film Dir.
WLBT-TV (Ch 3), 715 S. Jefferson St, Jackson 39201; Bob McRaney Jr, Gen. Mgr.
WTOK-TV (Ch 11), Box 1771, Meridian 39302; Robert Wright, Pres. & Gen. Mgr.
WTWV-TV (Ch 9), Box 350, Tupelo 38801; Frank Spain, Pres. & Gen. Mgr.

MISSOURI

KFVS-TV (Ch 12), 324 Broadway, Cape Girardeau 63701; Oscar C. Hirsch, Pres. & Gen. Mgr.
KOMO-TV (Ch 8), Highway 63, South Columbia 65201; Glenn Griswold, St. Mgr.
KRCG-TV (Ch 13), Highway 54, North, Jefferson City 65101; E. J. Schuelein, Gen. Mgr, Nat. Sales Mgr. & Film Buyer.
KODE-TV (Ch 12), 1928 W. 13th St, Joplin 64803; D. T. Knight, V.P, Gen. Mgr. & Film Buyer.
WDAF-TV (Ch 4), Signal Hill, Kansas City 64108; Jack Remington, Gen. Mgr.
KCMO-TV (Ch 5), 125 E. 31st St, Kansas City 64108; E. K. Hartenbower, V.P. & Gen. Mgr.
KMBC-TV (Ch 9), 11th & Central St, Kansas City 64105; Mark Wodlinger, V.P. & Gen. Mgr.
KFEQ-TV (Ch 2), 40th & Faraon St, St. Joseph 64506; Thomas Mathews, Gen. Mgr.
KMOX-TV (Ch 4), 1215 Cole St, St. Louis 63106; Leon Drew, V.P. & Gen. Mgr.
KPLR-TV (Ch 11), Video City, St. Louis 63108; Michael McCormick, Gen. Mgr.
KSD-TV (Ch 5), 1111 Olive St, St. Louis 63101; Harold Grams, Gen. Mgr.
KTVI-TV (Ch 2), 5915 Berthold Ave, St. Louis 63110; Ralph Hansen, V.P. & Gen. Mgr.
KTTS-TV (Ch 10), 2650 E. Division St, Springfield 68053; G. Pearson Ward, V.P., Mgr. & Film Buyer.
KYTV-TV (Ch 3), Box 2266, Springfield 65803; Carl Fox, Co-Mgr, Prog. Mgr. & Film Buyer.
KPOB-TV (Ch 15) (Satellite of WSIL-TV in Harrisburg, Ill. at Poplar Bluff, Mo.).
KMOS-TV (Ch 6) (Satellite of KRCG-TV in Jefferson City at Sedalia).

MONTANA

KOOK-TV (Ch 2), Box 2557, Billings 59103; Cliff Ewing, Gen. Mgr. & Nat. Sales Mgr.
KULR-TV (Ch 8), Box 2512, Billings 59103; Thor Myhre, Pres. & Gen. Mgr.
KXLF-TV (Ch 4), 1003 S. Montana St, Butte 59701; E. L. Paise, Gen. Mgr. & Film Buyer.
KXGN-TV (Ch 5), Box 205, Glendive 59330; George S. Blum, Gen. Mgr.
KFBB-TV (Ch 5), Boxx 1139, Great Falls 59401; Don McClintock, V.P. & Gen. Mgr.
KRTV-TV (Ch 3), Box 1331, Great Falls 59401; Don Bradley, Gen. Mgr.
KBLL-TV (Ch 12), 2433 N. Montana Ave, Helena 58601; Robert Ottmann Gen. Mgr.
KGVO-TV (Ch 13), 340 W. Main St, Missoula 59801; W.C. Blanchette, Gen. Mgr. & Nat. Sales Mgr.

NEBRASKA

KHAS-TV (Ch 5), Box 578, Hastings 68901; Duane L. Watts, V.P. Gen. Mgr. & Film Buyer.
KHOL-TV (Ch 13), 414 E. Ave, Holdredge 68949; Robert Brewster, St. Mgr.
KOLN-TV (Ch 10), 40th & West Sts, Lincoln 68501; A. James Ebel, V.P. & Gen. Mgr.
KNOP-TV (Ch 2), Box 749, N. Platte 69101; Harry Peck, V.P. & Gen. Mgr.
KETV-TV (Ch 7), 27th & Douglas Sts, Omaha 68131; Eugene S. Thomas, Exec. V.P.
KMTV-TV (Ch 3), 2615 Farnam St, Omaha 68133; Owen Saddler, Exec. V.P. & Gen. Mgr.
WOW-TV (Ch 6), 3501 Farnam St, Omaha 68131; Howard L. Stalnaker, V.P. & Gen. Mgr.
KHQL-TV (Ch 8) (Satellite of KHOL-TV in Kearney at Albion).
KGIN-TV (Ch 11) (Satellite of KOLN-TV in Lincoln at Grand Island).
KDUH-TV (Ch 4) (Affiliate of KOTA-TV in Rapid City, S.D. at Hay Springs, Neb.).
KHPL-TV (Ch 6) (Satellite of KHOL-TV in Kearney at Hayes Center).
KOMC-TV (Ch 8) (Satellite of KARD-TV in Wichita, Kan, at McCook, Neb.).
KSTF-TV (Ch 19) (Satellite of KFBC-TV in Cheyenne, Wyo, at Scottsbluff, Neb.).
KHTL-TV (Ch 4) (Satellite of KHOL-TV in Kearney at Superior).

NEVADA

KORK-TV (Ch 2), Box 550, Las Vegas 89101; Edward R. Tabor, V.P. & Gen. Mgr.
KSHO-TV (Ch 13), Box 2586, Las Vegas 89104; Lloyd Katz, Pres.
KLAS-TV (Ch 8), 250 E. Dessert Inn Rd, Las Vegas 89109; Mark Smith, St. Mgr.
KCRL-TV (Ch 4), 1790 Vassar St, Reno 89502; Roger Van Duzer, St. Mgr.
KOLO-TV (Ch 8), 770 E. 5th St, Reno 89502; Allen W. Dunn, V.P. & Gen. Mgr.

NEW HAMPSHIRE

WMUR-TV (Ch 9), 1819 Elm St, Manchester 03104; S. E. Phillips, V.P. & Gen. Mgr.
WRLH-TV (Ch 31), 14 Main St, W. Lebanon; Paul Bond, Pres.

NEW JERSEY

WNJU-TV (Ch 47), 1020 Broad St, Newark 07102; Edward Cooperstein, Pres. & Gen. Mgr.
WCMC-TV (Ch 40), 3010 New Jersey Ave, Wildwood 08260; William C. Wotring Jr, Pres. & Gen. Mgr.

NEW MEXICO

KGGM-TV (Ch 13), Box 1294, Albuquerque 87103; Bruce Hebenstreit, Pres., Gen. Mgr. & Film Buyer.
KOAT-TV (Ch 7), 1377 University Blvd, N.E, Albuquerque 87106; Max A. Sklower, St. Mgr. & Sales Mgr.
KOB-TV (Ch 4), Box 1351, Albuquerque 87103; Jerry Danziger, Gen. Mgr.
KAVE-TV (Ch 6), P.O. Box 1538, Carlsbad 88220; John B. Walton, Gen. Mgr. & Film Buyer.
KBIM-TV (Ch 10), 308 N. Main, Roswell 88201; W. H. Bailey, St. Mgr.
KSWS-TV (Ch 8), 1717 W. Second St, Roswell 88201; John A. Barnett Jr, Gen. Mgr.
KFDW-TV (Ch 12) (Satellite of KFDA-TV in Amarillo, Tex, at Clovis, N.M.).

NEW YORK

WAST-TV (Ch 13), P.O. Box 4035, Albany 12204; John Crawford, Gen. Mgr.
WTEN-TV (Ch 10), P.O. Box 10, Albany 12201; Kenneth M. Johnson, V.P. & Gen. Mgr.
WNBF-TV (Ch 10), Sheraton Inn, Binghampton 13902; George Dunham, Gen. Mgr.
WBJA-TV (Ch 34), Ingraham Hill Road, Binghampton 13903; S. J. Hinrichsen, St. Mgr.
WINR-TV (Ch 40), 70 Henry St, Binghampton 13901; Edward Scala, Gen. Mgr. & Film Buyer.
WBEN-TV (Ch 4), 2077 Elmwood Ave, Buffalo 14207; C. Robert Thompson, Gen. Mgr.
WGR-TV (Ch 2), 184 Barton St, Buffalo 14213; Robert Wiegand, V.P., Gen. Mgr. & Film Buyer.
WKBW-TV (Ch 7), 1420 Main St, Buffalo 14209; Robert King, V.P. & Gen. Mgr.
WABC-TV (Ch 7), 1330 Ave. of the Americas, New York 10019; Richard L. Beesemyer, V.P. & Gen. Mgr.
WCBS-TV (Ch 2), 51 W. 52nd St, New York 10019; Ralph Daniels, V.P. & Gen. Mgr.
WNBC-TV (Ch 4), 30 Rockefeller Plaza, New York 10020; Theodore H. Walworth Jr, V.P. & Gen. Mgr.
WNEW-TV (Ch 5), 205 E. 67th St, New York 10021; Lawrence P. Fraiberg, V.P. & Gen. Mgr.
WOR-TV (Ch 9), 1440 Broadway, New York 10018; Jerome Bess, V.P. & Gen. Mgr.
WPIX-TV (Ch 11), 220 E. 42nd St, New York 10017; Fred Thrower, Pres.
WPTZ-TV (Ch 5), 357-351 Cornelia St, Plattsburgh 12901; W. P. Eaton Jr, Gen. Mgr.
WHEC-TV (Ch 10), 191 E. Avenue, Rochester 14604; C. Glover Delaney, V.P. & Gen. Mgr.
WOKR-TV (Ch 13), 17 Clinto Ave. South, Rochester 14604; Richard Landsman, Pres. & Gen. Mgr.
WROC-TV (Ch 8), WROC Broadc. Center, Rochester 14610; Ervin F. Lyke, V.P. & Man. Dir.
WRGB-TV (Ch 6), 1400 Balltown Rd, Schenectady 12309; Reid L. Shaw, V.P. & Gen. Mgr.
WNYS-TV (Ch 9), Box 9, Syracuse 13201; John E. McArdle, Gen. Mgr.
WHEN-TV (Ch 5), 980 James St, Syracuse 13203; Paul Adanti, V.P. & Gen. Mgr.
WSYR-TV (Ch 3), 1030 James St, Syracuse 13203; E. R. Vadeboncoeur, Pres.

WKTV-TV (Ch 2), P.O. Box 386, Utica 13503; Sheldon F. Storrier, V.P. & Gen. Mgr.
WWNY-TV (Ch 7), 260 Washington St, Watertown 13601; James Higgins, Gen. Mgr.
WSYE-TV (Ch 18) (Satellite of WSYR-TV in Syracuse at Elmira).

NORTH CAROLINA
WISE-TV (Ch 62), 75 Scenic Highway, Asheville 28804; Harold H. Thoms, Pres.
WBTV-TV (Ch 3), 1 Julian Price Pl, Charlotte 28208; Wallace Jorgenson, Exec. V.P.
WCCB-TV (Ch 36), 1 Television Pl, Charlotte 28205; Susan Ross, Mgr.
WSOC-TV (Ch 9), Box 2536, Charlotte 28201; C. George Henderson, Exec. V.P. & Gen. Mgr.
WTVD-TV (Ch 11), P.O. Box 2009, Durham 27702; J. Floyd Fletcher, Gen. Mgr.
WFMY-TV (Ch 2), Philips Ave. & White St, Greensboro 27405; William A. Gietz, V.P. & Gen. Mgr.
WNCT-TV (Ch 9), Box 898, Greensville 27834; Hank Tribley, Exec. V.P. & Gen. Mgr.
WGHP-TV (Ch 8), 314 N. Main St, High Point 27260; James W. Coan, Chmn. of Board & Gen. Mgr.
WNBE-TV (Ch 12), Box 2325, New Bern 28562; Nathan Frank, Pres. & Gen. Mgr.
WRAL-TV (Ch 5), 2619 Western Blvd, Raleigh 27606; Fred Fletcher, Exec. V.P. & Gen. Mgr.
WITN-TV (Ch 7), Box 468, Washington; W. R. Roberson Jr, Pres. & Gen. Mgr.
WECT-TV (Ch 6), 205 W. Shipyard Blvd, Wilmington 28401; Dan D. Cameron, Pres.
WWAY-TV (Ch 3), Murchison Bldg, Wilmington 28402; Charles B. Britt, Gen. Mgr.
WSJS-TV (Ch 12), 419 N. Spruce St, Winston-Salem 27101; Harold Essex, Pres. & Gen. Mgr.
WCTU-TV (Ch 36), 4421 Central Ave, Charlotte.

NORTH DAKOTA
KFYR-TV (Ch 5), Box 1738, Bismarck 58501; Myron Atkinson, V.P. & Gen. Mgr.
KXMB-TV (Ch 12), Box 1617, Bismarck 58501; David Blackstead, V.P. & Gen. Mgr.
KDIX-TV (Ch 2), Box 1248, Dickinson 58601; Stanley Deck, Pres.
WDAY-TV (Ch 6), 207 N. Fifth St, Fargo 58101; Jack Lester, Gen. Mgr. & Nat. Sales Mgr.
KTHI-TV (Ch 11), Box 1878, Fargo 58103; W. P. Dix Jr, V.P. & Gen. Mgr.
KCND-TV (Ch 12), Box 191, Pembina 58271; Richard Vincent, Mgr.
WDAZ-TV (Ch 8) (Satellite of WDAY-TV in Fargo at Devils Lake).
KMOT-TV (Ch 10) (Satellite of KFYR-YV, Bismarck, Minot).
KXMC-TV (Ch 13), KXMC Bldg, Minot 58701; Chester Reiten, Pres., Gen. Mgr. & Film Buyer.
KXJB-TV (Ch 4) (Affiliate of KXMB-TV in Bismarck at Valley City).
KUMV-TV (Ch 8) (Satellite of KFYR-TV in Bismarck at Williston).

OHIO
WAKR-TV (Ch 49), Box 90, Akron 44309; Roger G. Berk, V.P. & Gen. Mgr.
WCPO-TV (Ch 9), 2345 Symmes St, Cincinnati 45206; Robert Gordon, V.P. & Gen. Mgr.
WKRC-TV (Ch 12), 1906 Highland Ave, Cincinnati 45219; Sam Johnston, V.P., Gen. Mgr. & Film Buyer.
WLWT-TV (Ch 5), 140 W. Ninth St, Cincinnati; Fred E. Walker, V.P. & Gen. Mgr.
WEWS-TV (Ch 5), 3001 Euclid Ave, Cleveland 44115; Donald L. Perris, V.P. & Gen. Mgr.
WJW-TV (Ch 8), 1630 Euclid Ave, Cleveland 44115; Kenneth Bagwell, V.P. & Gen. Mgr.
WKYC-TV (Ch 3), 1403 E. Sixth St, Cleveland 44114; Arthur A. Watson, V.P. & Gen. Mgr.
WBNS-TV (Ch 10), 770 Twin Rivers Dr, Columbus 43212; Richard A. Borel, Pres. & Gen. Mgr.
WLWC-TV (Ch 4), 3165 Olentangy River Rd, Columbus 43202; Richard Reed, V.P. & Gen. Mgr.
WTVN-TV (Ch 6), 773 Harmon Ave, Columbus 43223; Fred Von Stade, V.P., Gen. Mgr. & Film Buyer.
WHIO-TV (Ch 7), 1414 Wilmington Ave, Dayton 45420; Stanley Mouse, V.P. & Gen. Mgr.
WKEF-TV (Ch 22), 1731 Soldiers Home & W. Carrollton Rd, Dayton 45409; George J. Mitchell, V.P. & St. Mgr.
WLWD-TV (Ch 2), 4595 S. Dixie Highway, Dayton 45439; Donald Dahlman, V.P. & Gen. Mgr.
WIMA-TV (Ch 35), 1524 Rice Ave, Lima 45805; Robert Mack, Gen. Mgr.
WSTV-TV (Ch 9), 428 Market St, Steubenville 43952; Theodore Eiland, V.P. & Gen. Mgr.
WDHO-TV (Ch 24), Commodore Perry Hotel, Toledo 43603; William Pipher, Gen. Mgr.
WSPD-TV (Ch 13), 136 Huron St, Toledo 43604; Keith T. McKenney, V.P. & Gen. Mgr.
WTOL-TV (Ch 11), 604 Jackson St, Toledo 43604; Charles A. Batson, Gen. Mgr.
WKBN-TV (Ch 27), 3930 Sunset Blvd, Youngstown 44512; W. P. Williamson Jr, Pres. & Gen. Mgr.
WFMJ-TV (Ch 21), 101 W. Boardman St, Youngstown 44503; William F. Maag Jr, Pres.
WYTV-TV (Ch 33), 3800 Shady Run Rd, Youngstown 44502; Howard D. Duncan Jr, Exec. V.P. & Gen. Mgr.
WHIZ-TV (Ch 18), N. Fifth St, Zanesville 43701; Robert Hodous, Gen. Mgr.
WICA-TV (Ch 15), Box 372, Ashtabula; John A. Colin, Gen. Mgr.
WJAN-TV (Ch 17), Box 985, Canton; Raymond K. Janson, Gen. Mgr.
WSCO-TV (Ch 19), 1150 W. 8th St, Cincinnati; R. D. McLarty, Gen. Mgr.
WRLO-TV (Ch 30), 4132 Scioto Trail, Portsmouth 45662; R. Dean Sturm, Gen. Mgr.

OKLAHOMA
KTEN-TV (Ch 10), Box 10, Ada 74820; Bill Hoover, Pres., Gen. Mgr. & Film Buyer.
KSWO-TV (Ch 7), P.O. Box 708, Lawton 73502; R. H. Drewry, Pres. & Gen. Mgr.
KOCO-TV (Ch 5), Box 16538, Oklahoma City 73116; Ben K. West, V.P. & Gen. Mgr.
KWTV-TV (Ch 9), Box 14788, Oklahoma City 73114; Edgar T. Bell, Exec. V.P. & Gen. Mgr.
WKY-TV (Ch 4), Box 14668, Oklahoma City 73114; Norman P. Bagwell, V.P. & St. Mgr.
KTUL-TV (Ch 8), Box 9697, Tulsa 74107; William D. Swanson, V.P., Gen. Mgr. & Film Buyer.
KOTV-TV (Ch 6), 302 S. Frankfort St, Tulsa 74120; George Stevens, V.P. & Gen. Mgr.
KVOO-TV (Ch 2), 3701 S. Peoria, Tulsa 74105; John Devine, Exec. V.P. & Gen. Mgr.
KXII-TV (Ch 12), Madill, Oklahoma; C. M. Balding, Mgr.
KLPR-TV (Ch 14), Box 94970, Oklahoma City; Omer C. Thompson, V.P. & Gen. Mgr.
KFDO-TV (Ch 8) (Satellite of KFDA-TV in Amarillo, Tex. near Sayre, Oklahoma) Pat Gilbreath, Resident eng. supervisor.

OREGON
KEZI-TV (Ch 9), 2225 Coburg Rd, Eugene 97401; Don Tykeson, Pres. & Gen. Mgr.
KVAL-TV (Ch 13), Box 1313, Eugene 97401; S. W. McCready, V.P. & Gen. Mgr.
KOTI-TV (Ch 2), 239 Main St, Klamath Falls 97601; Don R. Stonehill, V.P. & St. Mgr.
KMED-TV (Ch 10), P.O. Box 10, Medford 97501; Ray Johnson, Exec. V.P. & Gen. Mgr.
KTVM-TV (Ch 5), 2000 Crater Lake Highway, Medford 97501; Jerold R. Poulos, V.P. & St. Mgr.
KATU-TV (Ch 2), 2153 N. E. Sandy Blvd, Portland 97232; William J. Hubbach, V.P. & Gen. Mgr.
KGW-TV (Ch 8), 1501 S. W. Jefferson, Portland 97201; Ancil H. Payne, V.P. & Gen. Mgr.
KOIN-TV (Ch 6), 140 S. W. Columbia St, Portland 97201; C. Howard Lane, Pres. & Man. Dir.
KPTV-TV (Ch 12), Box 3401, Portland 97208; John S. Hansen, Pres. & Gen. Mgr.
KCBY-TV (Ch 11) (Satellite of KVAL-TV in Eugene at Coos Bay) S. W. McCready, Gen. Mgr.
KTVR-TV (Ch 13) (Satellite of KTVB-TV in Boise, Idaho, at Le Grande, Ore.) Georgia M. Davidson, Pres.
KPIC-TV (Ch 4) (Satellite of KVAL-TV in Eugene at Roseburg) S. W. McCready, Gen. Mgr.

PENNSYLVANIA
WFBG-TV (Ch 10), 5000 Sixth Ave, Altoona 16602; John Stilli, Gen. Mgr.
WNEP-TV (Ch 16), Wilkes Barre-Scranton Airport, Avoca 18641; Thomas P. Shelburne, Gen. Mgr.
WICU-TV (Ch 12), 3514 State St, Erie; Art Ingram, Gen. Mgr.
WSEE-TV (Ch 35), 1220 Peach St, Erie 16501; Edward Zellefrow, Gen. Mgr. & Film Buyer.
WJET-TV (Ch 24), 1635 Ash St, Erie 16503; Myron Jones, Pres.
WHP-TV (Ch 21), 216 Locust St, Harrisburg 17101; Joseph H. Higgins, Exec. V.P. & Gen. Mgr.
WTPA-TV (Ch 27) 3235 Hoffman St, Harrisburg 17110; Paul S. Abbott, Gen. Mgr. & Film Buyer.
WIBF-TV (Ch 29), Box 8828, Jenkintown (Philadelphia area) 19117; William Fox, Pres.
WJAC-TV (Ch 6), Box 599, Johnstown 15907; Alvin D. Scrott, Exec. V.P. & Gen. Mgr.
WARD-TV (Ch 56), 301 Franklin St, Johnstown 15901; William D. Confer, Mgr. & Film Buyer.
WGAL-TV (Ch 8), 8 West King St, Lancaster 17603; Clair McCollough, Pres. & Gen. Mgr.
WLYH-TV (Ch 15), Television Hill, Lebanon 17402; Jayson Sondheim, Gen. Mgr.
KYW-TV (Ch 3), 1619 Walnut St, Philadelphia 19103; Kenneth McDonald, Gen. Mgr.
WCAU-TV (Ch 10), City & Monument Ave, Philadelphia 19131; Bruce S. Bryant, V.P. & Gen. Mgr.
WFIL-TV (Ch 6), 4100 City Line Ave, Philadelphia 19131; Roger Clipp, V.P.
WKBS-TV (Ch 48), 3201 South 26th St, Philadelphia 19145; Richard K. Jolliffe, Gen. Mgr.
WPHL-TV (Ch 17), 230 South 15th St, Philadelphia 19102; Larry Cooper, Film Buyer.
KDKA-TV (Ch 2), 1 Gateway Center, Pittsburg 15222; James M. King, Gen. Mgr.
WIIC-TV (Ch 11), 341 Rising Main St, Pittsburgh 15214; Frank Gaither, V.P.
WTAE-TV (Ch 4), 400 Ardmore Blvd, Pittsburgh 15218; Franklin Snyder, V.P. & Gen. Mgr.
WDAU-TV (Ch 22), 1000 Wyoming, Scranton 18509; Mrs. M. M. Holcomb, Gen. Mgr.
WBRE-TV (Ch 28), 62 So. Franklin St, Wilkes Barre 18701; David Baltimore, V.P. & Gen. Mgr.
WSBA-TV (Ch 43), Box 1868, York 17405; Robert M. Stough, St. Mgr.

U.S.A. ISLAND

RHODE
WAR- V (Ch 10), 176 Weybosset St, Providence 02903; J. S. Sinclair, Pres.
WPRO- V (Ch 12), 24 Mason St, Providence 02903; Peter C. Newell, Gen. Mgr.

CAROLINA

SOUTH
WAIM- V (Ch 40), 321 Kingsley Rd, Anderson 29623; Glenn Warnock, Gen. Mgr.
WCSC- V (Ch 5), 485 East Bay, Charleston 29403; John M. Rivers, Pres. & Gen. Mgr.
WUSN- V (Ch 2), Box 879, Charleston 29402; Douglas M. Bradham, V.P. & Gen. Mgr.
WIS- V (Ch 10), 1111 Bull St, Columbia 29201; Carter Hardwick, Senior V.P. & Gen. Mgr.
WNOK- V (Ch 19), Box 5207, Columbia 29205; H. Moody McElveen Jr. Exec. V.P.
WOLO- V (Ch 25), Box 4217, Columbia 29204; Henry Hughes, St. Mgr. & Film Buyer.
WBTV- V (Ch 13), Box 630, Florence 29501; J. William Quinn, Ass. Gen. Dir.
WFBC- V (Ch 4), Box 788, Greenville 26902; Wilson Wearn, Pres.
WLOS- V (Ch 13), Box 2363, Greenville 29602; Morton S. Cohn, V.P., Gen. Mgr. & Film Buyer.
WCIV- V (Ch 4), Highway 703, Mount Pleasant 29464; William Lucas, Gen. Mgr.
WRDW- V (Ch 12), Georgia & Observatory Ave, N. Augusta 29841; Virgil B. Wolff, V.P. & Gen. Mgr.
WSPA- V (Ch 7), 123 N. Converse St, Spartanburg 29302; Charles Sanders, V.P. & Gen. Mgr.

DAKOTA

SOUTH
KORN- V (Ch 5), P.O. Box 908, Mitchell 57301; R. V. Eppel, Pres. & Gen. Mgr.
KOTA- V (Ch 3), Box 1752, Rapid City 57702; Miss Helen S. Duhamel, Pres. & Gen. Mgr.
KRSD- V (Ch 7), 1438 Mountain View Rd, Rapid City 57704; Eli Daniels, Pres. & Gen. Mgr.
KELO- V (Ch 11), Phillips at 13th St, Sioux Falls 57102; Evans Nord, Exec. V.P. & Gen. Mgr.
KSOO- V (Ch 13), 205 No. Phillips Ave, Sioux Falls 57102; Morton Henkin, Pres. & Gen. Mgr.
KXAB- V (Ch 9), Box 118, Aberdeen 57401; Richard F. Dunne, St. Mgr. & Sales Mgr.
KDSJ- V (Ch 5) (Satellite of KRSK-TV in Rapid City at Deadwood) Daniels, Resident Mgr.
Harry V (Ch 3) (Satellite of KELO-TV in Sioux Falls at Watertown) KDLO- d, Pres.
Joe Flo V (Ch 11) (Satellite of KOTA-TV in Rapid City at Lead) KHSD- enefelt, Resident Eng.
Wilbur V (Ch 6) (Satellite of KELO-TV in Sioux Falls at Reliance) KPLO- d, Pres.
Joe Flo

TENNESSEE

WCYB- TV (Ch 5), P.O. Box 603, Bristol 37621; R. H. Smith, Pres., Gen. Mgr. & Film Buyer.
WDEF- TV (Ch 12), Broadcast Center, Chattanooga 37402; Ken Flennin, Exec. V.P. & Gen. Mgr.
WRCB- TV (Ch 3), 1214 McCallie Ave, Chattanooga 37404; H. D. Burke, V.P., Gen. Mgr. & Film Buyer.
WTVC- TV (Ch 9), Box 1150, Chattanooga 37401; R. R. Owen, V.P., Gen. Mgr. & Film Buyer.
WBBJ- TV (Ch 7), Williams Bldg, Jackson 38302; Gerry Quick, Gen. Mgr., V.P. & Reg. Sales Mgr.
WJHL- TV (Ch 11), 137-145 West Main St, Johnson City 37602; W. Hal Lancaster Jr, Exec. V.P. & Gen. Mgr.
WATE- TV (Ch 6), 1306 Broadway N.E., Knoxville 37917; John McCl d, Gen. Mgr.
WBIR- TV (Ch 10), 1513 Hutchinson Ave, Knoxville 37917; John Hart, V.P. & Gen. Mgr.
WTVK- TV (Ch 26), Box 1388, Knoxville 37901; J. A. Engelbrecht, Pres. & Gen. Mgr.
WHBQ- TV (Ch 13), 485 S. Highland, Memphis 38111; D. A. Noel, Gen. Mgr. & Div. Dir.
WMC- TV (Ch 5), 1960 Union Ave, Memphis 38104; Morris Greiner Jr, Gen. Mgr. & V.P.
WREC- TV (Ch 3), Hotel Peabody Bldg, Memphis 38101; Charles B. Bra ld, Pres. & Gen. Mgr.
WLAC- TV (Ch 5), 159 Fourth Ave, N. Nashville 37210; T. B. Baker Jr, Exec. V.P. & Gen. Mgr.
WSIX- TV (Ch 8), 441 Murfreesboro Rd, Nashville 37210; A. D. Faust, V.P. & Gen. Mgr.
WSM- TV (Ch 4), 5700 Knob Rd, Nashville 37209; Irving Waugh, V.P. & Gen. Mgr.

TEXAS

KTXS- TV (Ch 12), Box 2997, Abilene 79604; William I. de Pournillor, St. Mgr.
KRBC- TV (Ch 9), 4150 S. 14th St, Abilene 79602; Dale Ackers, Pres. & Gen. Mgr.
KFDA- TV (Ch 10), Cherry Ave at Broadway, Amarillo 79108; Bill Cook, V.P. & Gen. Mgr.
KGNC- TV (Ch 4), 2000 N. Polk St, Amarillo 79107; Bob Watson, Gen. Mgr. & Film Buyer.
KVII- TV (Ch 7), Box 925, Amarillo 79105; Charlie Keys, Gen. Mgr.
KHFI- TV (Ch 42), 908 West 19th St, Austin 78701; Dan Love, Exec. V.P. & Gen. Mgr.
KTBC- TV (Ch 7), Box 1209, Austin 78767; J. C. Kellam, Pres. & Gen. Mgr.
KBMT- TV (Ch 12), 1420 Calder Ave, Beaumont 77701; R. C. Currie Jr, V.P., Gen. Mgr. & Film Buyer.
KFDM-TV (Ch 6), Box 5566, Beaumont 77706; M. M. Johnson, Gen. Mgr.
KJAC-TV (Ch 4), Box 3257, Port Arthur 77642; Roy Shotts, V.P. & Gen. Mgr.
KWAB-TV (Ch 40), 2500 Kentucky Way, Big Spring 79720; Robert S. Galbraith Jr, St. Mgr.
KIII-TV (Ch 3), 4750 Lexington Blvd, Corpus Christi 78411; M. D. McKinnon, Exec. V.P. & Gen. Mgr.
KZTV-TV (Ch 10), Show Room Bldg, Corpus Christi 78403; Vann M. Kennedy, Pres., Gen. Mgr. & Film Buyer.
KRIS-TV (Ch 6), 409 S. Staples St, Corpus Christi 78401; T. Frank Smith, Pres. & Gen. Mgr.
KRLD-TV (Ch 4), Herald Square, Dallas 75202; Ves Box, V.P. & Gen. Mgr.
WFAA-TV (Ch 8), Communications Center, Dallas 75202; Mike Shapiro, Gen. Mgr.
KELP-TV (Ch 13), Box 9924, El Paso 79989; Gene Roth, Gen. Mgr. & Film Buyer.
KROD-TV (Ch 4), Box 1799, El Paso 79949; Ed Sleighel, Gen. Mgr.
KTSM-TV (Ch 9), 801 No. Oregon St, El Paso 79902; K. O. Wyler Jr, Pres. & Gen. Mgr.
WBAP-TV (Ch 5), 3900 Barnett St, Fort Worth 76103; Roy Bacus, Gen. Mgr.
KTVT-TV (Ch 11), Box 2495, Fort Worth 76107; James Terrell, St. Mgr.
KGBT-TV (Ch 4), 1519 West Harrison St, Harlingen 78550; McHenry T. Tichenor, Pres.
KPRC-TV (Ch 2), 3014 S. Post Oak Rd, Houston 77027; Jack Harris, Pres. & Gen. Mgr.
KTRK-TV (Ch 13), 3310 Bissonet, Houston 77005; W. E. Walbridge, V.P. & Gen. Mgr.
KHOU-TV (Ch 11), Box 11, Houston 77001; J. C. Richdale Jr, V.P. & Gen. Mgr.
KGNS-TV (Ch 8), Convent & Houston Sts, Laredo 78040; Pat Miller, V.P. & Gen. Mgr.
KCBD-TV (Ch 11), 5600 Avenue A, Lubbock 79404; Joseph H. Bryant, Pres.
KLBK-TV (Ch 13), Box 1559, Lubbock 79408; Stuart W. Klein, Gen. Mgr.
KTRE-TV (Ch 9), Box 729, Lufkin 75901; Fred C. Hill, Pres. & Gen. Mgr.
KMID-TV (Ch 2), Midland 79705; Ray Herndon, Gen. Mgr. & Film Buyer.
KVKM-TV (Ch 9), Drawer K, Monahans 79756; John B. Walter Jr, Owner & Gen. Mgr.
KOSA-TV (Ch 7), 1211 N. Whitaker, Odessa 79761; John Vacca, V.P., Gen. Mgr. & Film Buyer.
KCTV-TV (Ch 8), 1011 East 28th St, San Angelo 78205; Hal Atkins Jr, Gen. Mgr. & Film Buyer.
KENS-TV (Ch 5), Ave. E & Fourth St, San Antonio 78205; Wayne Kearl, Pres. & Gen. Mgr.
KONO-TV (Ch 12), 1408 N. St. Mary's St, San Antonio 78215; James Brown, V.P. & Gen. Mgr.
WOAI-TV (Ch 4), Navarro St, San Antonio 78205; E. V. Cheviot, V.P. & Gen. Mgr.
KCEN-TV (Ch 6), 17 Third St, Temple 76501; Robert Lunquist, V.P. & Gen. Mgr.
KLTV-TV (Ch 7), Box 957, Tyler 75705; Marshall H. Pengra, Exec. V.P., Gen. Mgr. & Film Buyer.
KWTX-TV (Ch 10), Waco 76710; M. N. Bostick, Pres., Gen. Mgr. & Film Buyer.
KRGV-TV (Ch 5), 309 S. Missouri St, Weslaco 78596; Jack H. Drake, Gen. Mgr.
KAUZ-TV (Ch 6), Seymour St, Wichita Falls 76309; William E. Hobbs, Pres. & Gen. Mgr.
KFDX-TV (Ch 3), Box 2040, Wichita Falls 76307; Darrold Cannan, Pres.
KBTX-TV (Ch 3) (Affiliate of KWTX-TV in Waco at Bryan).
KHTV-TV (Ch 39), 7700 Westpark Dr, Houston 77042; Crawford Rice, Mgr.
KACB-TV (Ch 3) (Satellite of KRBC-TV in Abilene at San Angelo) Dale Ackers, Pres. & Gen. Mgr.
KWEX-TV (Ch 41), 111 Martinez St, San Antonio; Emilio Nicolas, V.P. & Gen. Mgr.

UTAH

KCPX-TV (Ch 4), 130 Social Hall Ave, Salt Lake City 84111; Harald Wooley, Gen. Mgr.
KSL-TV (Ch 5), 145 Social Hall Ave, Salt Lake City 84111; L. H. Curtis, Exec. V.P. & Gen. Mgr.
KUTV-TV (Ch 2), 179 Social Hall Ave, Salt Lake City 84111; Robert Temple, St. Mgr. & Gen. Sales Mgr.

VERMONT

WCAX-TV (Ch 3), 100 Market Square, Burlington 05451; Stuart Martin, Pres. & Gen. Mgr.

VIRGINIA

WSVA-TV (Ch 3), Rawley Pike, Harrisonburg 22801; J. Harry Abbott, V.P. & Gen. Mgr.
WLVA-TV (Ch 13), 2320 Langhorne Rd, Lynchburg 24501; Thomas N. Waller, Gen. Mgr.
WTAR-TV (Ch 3), 720 Boush St, Norfolk 23510; Lee C. Kitchir, Pres.
WVEC-TV (Ch 13), 110 Third St, Norfolk 23510; Thomas Chisman, Pres., Gen. Mgr. & Film Buyer.
WAVY-TV (Ch 10), 101 Middle St, Portsmouth 23704; J. Glen Taylor, Pres. & Gen. Mgr.
WRVA-TV (Ch 12), 5710 Midlothian Pike, Richmond 23225; Barron Howard, Pres. & Special Ass.
WTVR-TV (Ch 6), Box 11064, Richmond; Ed Frech, Exec. V.P. & Gen. Mgr.

WXEX-TV (Ch 8), Box 8765, Richmond 23226; Irvin G. Abeloff, Resident V.P. & Film Buyer.
WDBJ-TV (Ch 7), Box 227, Roanoke 24002; John W. Harkrader, V.P. & Gen. Mgr.
WSLS-TV (Ch 10), Box 2161, Roanoke 24009; Horace Fitzpatrick, Exec. V.P. & Film Buyer.
WRFT-TV (Ch 27), Little Brushy Mt, Roanoke; Richard K. Burton, Gen. Mgr.

WASHINGTON

KVOS-TV (Ch 12), 1151 Ellis St, Bellingham 98225; Dave Mintz, V.P. & Mgr.
KING-TV (Ch 5), 320 Aurora Ave, Seattle 98109; Stimson Bullitt, Pres.
KIRO-TV (Ch 7), 1530 Queen Anne Ave. North, Seattle 98109; Lloyd E. Cooney, Exec. V.P. & Gen. Mgr.
KOMO-TV (Ch 4), 100 Fourth Ave. North, Seattle 98109; W. W. Warren, Pres. & Gen. Mgr.
KHQ-TV (Ch 6), 4202 So. Regal, Spokane 99203; R. O. Dunning, Pres. & Gen. Mgr.
KREM-TV (Ch 2), 4103 So. Regal, Spokane 99203; Eric S. Brimner, Gen. Mgr.
KTNT-TV (Ch 11), S. 11th & Grant Sts, Tacoma 98405; Max H. Bice, Gen. Mgr.
KTVW-TV (Ch 13), 5544 No. 35th St, Tacoma 98407; James Agostino, Gen. Mgr. & Film Buyer.
KIMA-TV (Ch 29), Radio and TV Center, Yakima 98901; John H. Reber, V.P. & Gen. Mgr.
KNDO-TV (Ch 23), 23 S. First St, Yakima 98901; Hugh Davis, Pres., Progr. Dir. & Film Buyer.
KEPR-TV (Ch 19) (Associated with KIMA-TV in Yakima at Pasco) Studio at 2807 W. Lewis, Pasco 99301; Dick Edwards, Mgr.
KNDU-TV (Ch 25) (Associated with KNDO-TV in Yakima at Pasco) 919 W. Court St, Pasco 99301; Bruce A. Glenn, Resident Mgr. & Sales Mgr.
KXLY-TV (Ch 4), 500 W. Boone Ave, Spokane 99201; Wayne McNulty, Gen. Mgr. (KXLY-TV also has programs repeated by satellite stations CKFB-TV in Balfour, CHMS-TV No. 1 in Crescent Valley, CHMS-TV No. 2 in Passmore, and CHMS-TV No. 3 in Perrys, all located in Canada).

WEST VIRGINIA

WHIS-TV (Ch 6), Municipal Bldg, Bluefield 24701; John C. Shott, Gen. Mgr. & Film Buyer.
WCHS-TV (Ch 8), 1111 Virginia St, East, Charleston 25301; Philip D. Marella, Gen. Mgr.
WBOY-TV (Ch 12), 912 West Pike St, Clarksburg 26301; N. W. Levin, Pres.
WDTV-TV (Ch 5), 400 Quincy St, Fairmont 26554; John E. North, V.P. & Gen. Mgr.
WHTN-TV (Ch 13), 625 Fourth Ave, Huntingdon 25701; O. W. Myers, Exec. V.P., Gen. Mgr. & Nat. Sales Mgr.
WSAZ-TV (Ch 3), Box 2215, Huntingdon 25721; Jack W. Lee, V.P. & Gen Mgr.
WOAY-TV (Ch 4), Highway 21 South, Oak Hill 25901; R. R. Thomas Jr, Gen. Mgr.
WTAP-TV (Ch 15), 121 West Seventh St, Parkersburg 26101; Ron Maines, Gen. Mgr.
WTRF-TV (Ch 7), 1329 Market St, Wheeling 26003; Robert Ferguson, Pres. & Gen. Mgr.

WISCONSIN

WEAU-TV (Ch 13), 1907 S. Hastings Way, Eau Claire 54701; Leo Howard, Gen. Mgr.
WFRV-TV (Ch 5), 1181 East Mason St, Green Bay 54301; Robert Southard, V.P. & Gen. Mgr.
WBAY-TV (Ch 2), 115 S. Jefferson, Green Bay 54301; Bob Nelson, Gen. Mgr.
WLUK-TV (Ch 11), Box 711, Green Bay 54305; Thomas A. Kutchison, Gen. Mgr.
WKBT-TV (Ch 8), 141 S. Sixth St, La Crosse 54601; Howard Dahl, Gen. Mgr.
WMTV-TV (Ch 15), 4269, Madison 53711; Thomas E. Bolger, Exec. V.P. & Gen. Mgr.
WICS-TV (Ch 3), 4801 West Beltline Highway, Madison 53711; Ralph O'Connor, Gen. Mgr.
WKOW-TV (Ch 27), 5727 Tokay Blvd, Madison 53711; Tony Moe, Exec. V.P. & Gen. Mgr.
WISN-TV (Ch 12), 759 N. 19th St, Milwaukee 53233; James T. Butler, V.P. & Gen. Mgr.
WITI-TV (Ch 6), 5445 N. 27th St, Milwaukee 53209; Roger LeGrand, V.P. & Gen. Mgr.
WTMJ-TV (Ch 4), 720 East Capitol Dr, Milwaukee 53212; George Comte, V.P. & Gen. Mgr., Radio & TV.
WVTV-TV (Ch 18), Schroeder Hotel, Milwaukee 53203; John Haberlan, St. Mgr.
WAOW-TV (Ch 9), Box 1007, Wausau 54401; Robert Johnson, Gen. Mgr.
WSAU-TV (Ch 7), 714 Fifth St, Wausau 54401; Richard D. Dudley, Pres. & Gen. Mgr.
WAEO-TV (Ch 12), County Hwy. C at Starks Rhinelander; Alvin E. O'Konski, Pres. & Gen. Mgr.

WYOMING

KTWO-TV (Ch 2), 4200 East Second St, Casper 82601; Jack Rosenthal, V.P. & Gen. Mgr.
KFBC-TV (Ch 5), 2923 East Lincolnway, Cheyenne 82001; William C. Grove, Exec. V.P., Gen. Mgr. & Chief Eng.
KWRB-TV (Ch 10), 500 Broadway, Thermopolis 83443; Joseph Ernst, Gen. Mgr. & Chief Eng.

AMERICAN BROADCASTING COMPANIES INC.

Addr: 1330 Ave. of the Americas, New York, NY 10019. **L.P:** Pres: Leonard H. Goldenson. Exec. Vice Pres: Simon B. Siegel. Vice Pres. Press Rel: Ellis Moore. Vice Pres: Alfred Schneider. Pres. ABC TV Netw: Elton Rule. Vice Pres. & Gen. Mgr. ABC TV Netw: I. M. Pompadur. Pres. ABC Films: Hal Golden. Vice-Pres. Programming: Leonard Goldberg. Vice-Pres. in charge of broadc. operations and engineering: Julius Barnathan. **L.P:** for ABC International Television, Inc: Pres: Donald Coyle.
Owned and operated stations: WABC-TV New York; WBKB-TV Chicago; WXYZ-TV Detroit; KABC-TV Los Angeles; KGO-TV San Francisco.

COLUMBIA BROADCASTING SYSTEM INC.

Addr: 51 West 52nd Street, New York 10019. **L.P:** Chmn. of Board: William S. Paley. Pres: Frank Stanton. Pres. CBS Broadc. Group: John A. Schneider. **L.P:** CBS Television Network Executives: Pres: Thomas H. Dawson. Sen. Vice Pres. Prgr's: Michael H. Dann. Vice Pres. Information. Secs: John P. Cowden. Vice Pres. Publicity Inf: Charles Steinberg. Vice Pres. Operations & Engineering: Edward L. Saxe. Vice Pres. Sale: Frank M. Smith Jr. Vice Pres. Gen. Sales Mgr: Carl Tillmanns. **L.P:** for CBS Television Stations Division: Pres: Robert Wood. Exec. Vice Pres. International Operations: Pres. CBS TV Services: Sam Cook Diggers. **L.P:** Vice Pres. & Gen. Mgr. CBC Enterprises: Ralph M. Baruch. Pres. CBS Films: Gordon Stuberg.
Owned and operated stations: WCBS-TV, New York; WBBM-TV, Chicago; KNXT-TV, Los Angeles; WCAU-TV, Philadelphia; KMOX-TV, St. Louis.

NATIONAL BROADCASTING COMPANY

Addr: 30 Rockefeller Plaza, New York, NY 10020. **L.P:** Chairman of Board: Walter Scott. Pres: Julian Goodman. Vice Pres. Corporate Information: Robert Kasmire. **L.P:** NBC Television Network: Pres: Donald Durgin. Vice Pres. NBC-TV Programs: Mort Werner. **L.P:** for NBC Enterprises Div: Pres: Raymond Wellpot. Pres. NBC-TV: Gerald Adler.
Owned and operated stations: WNBC-TV, New York; WRC-TV, Washington; WMAQ-TV, Chicago; WKYC-TV, Cleveland; KNBC-TV, Los Angeles.

THE ARMED FORCES RADIO & TELEVISION SERVICE

A: Army, AF: Air Force, N: Navy.

Areas		ChA	Watts /kW	Areas		ChA	Watts /kW
Adak[1]	N	8	120	Chitose[8]	AF	73	1kW
Galena[1]	AF	8	130	Misawa[8]	AF	73	600
Fo. Greely[1]	A	8	180	Pusan[9]	A	2	120
King Salmon[1]	AF	8	100	Seoul[9]	A	2	5kW
Kodiak[1]	N	8	200	+ 6 relay st's.			
Northeast				Clark AB[10]	AF	8	80
Cape[1]	AF	11	50	Okinawa[11]	AF	8	45kW
Goose Bay[2]	AF	8	346	Asmara[12]	A	8	250
Fo. Clayton[3]	A	8	250	Teheran[13]	A	8	500
Fo. Davis[3]	A	10	250	Tripoli[14]	AF	8	500
Guantanamo[4]	N	8	1kW	Lajes Field[15]	AF	8	180
Aguadilla[5]	AF	21	100	Sondrestrom[16]	AF	8	180
Roosevelt				Thule[16]	AF	8	100
Roads[5]	N	8	10	Keflavik[17]	N	8	250
Iraklion[6]	AF	8	300	Johnston Isl.[18]	AF	7	200
Berlin[7]	A	25	100	Midway Isl.[19]	N	4	120
Ramstein[7]	AF	26	3kW	Saigon[19]	A	11	2kW
Spangdahlem[7]	AF	22	8kW				

[1]Alaska; [2]Labrador; [3]Canal Zone; [4]Cuba; [5]Puerto Rico; [6]Greece; [7]Germany; [8]Japan; [9]Korea; [10]Philippines; [11]Okinawa; [12]Eritrea; [13]Iran; [14]Libya; [15]Azores; [16]Greenland; [17]Iceland; [18]Pacific; [19]Vietnam.

CENTRAL AMERICA

BARBADOS

CARIBBEAN BROADCASTING CORP. (Gov, Comm.)

Addr: P.O. Box 780, Barbados. **Te:** 92041. **Cable:** Cabroco.
L.P: Gen. Mgr: A. N. Forde. Dir. Tec: G. S. Shaw. **Station:** CBC-TV chA3 60/30kW.
D.Prgr: 21.30-02.30. **TV sets:** 12.000.

COSTA RICA

TELEVISORA DE COSTA RICA (Comm.)

Addr: Apt. 3876, San José. **Te:** 222233. **Cable:** Television. **L.P:** Pres: H. Federspiel. Mgr: R. Picado. Dir. Tec: G. Guzman.
Station: TI-TVCR chA7 50/25kW. **Rel St's:** Villa Mills chA11 3.5/1.75kW, Palmira chA12 5.4/2.7kW, Turrialba Volcano chA7 1.5/0.75kW, Golfito chA5 1.2/0.6kW. **D.Prgr:** 17.30-05.00.

R. TELEVISION TIC-TAC (Comm.)

Addr: Apt. 4666, San José. **Te:** 223334. **Cable:** Tictac. **L.P:** Gen. Mgr: A. Vargas V. St. Mgr: C. Reyes A. **Station:** San José chA4 75/37.5kW H.
D.Prgr: 21.00-05.00.

CORP. COSTARICENSE DE TELEVISION (Comm.)

Addr: P.O. Box 2860, San José. **Te:** 210255. **L.P:** Pres. & Film Buyer & Gen. Mgr: J. J. Ortiz. Dir. Tec: R. Pacheco.
Station: chA6 12/6kW (Relay: chA13 4kW). **D.Prgr:** 18.00-04.00.

TELESISTEMA NACIONAL S.A.
Addr: P.O. Box 2860, San José. **Cable:** Telenac. **L.P:** Pres. & Film Buyers: M. Sotela, J. J. Ortiz. Dir. Tec: C. Reyes. **Stations:** chA2 60/30kW H. **D.Prgr:** 00.00-04.00.
TV sets: 75.000.

CUBA

TELEVISION STATIONS:

Pol: H. **Call:** CM--.

Call	ch	kW	Location
KU-TV	2	14/7	Santiago
JA-TV	2	16/8	C. de Avila
KJ-TV	3	28/14	Holguin
BF-TV	4	124/62	La Habana
J-TV	4	56/28	Camaguey
HQ-TV	5	25.4/12.7	Sta. Clara
LB-TV	5	16/8	Santiago
JL-TV	6	56/28	Camaguey
Q-TV	6	124/62	La Habana
FD-TV	7	18.8/19.4	C. de Avila
AB-TV	7	58/29	S. Cristóbal
KB-TV	7	30/5	Baracoa
LD-TV	8	10/5	Holguin
RA-TV	8	24/4	Sta. Clara
GQ-TV	9	29.3/14.17	Matanzas
GH-TV	11	42/7	Matanzas
AL-TV	12	61/30.5	P. del Rio
G-TV	13	30/15	Matanzas
KG-TV	13	24/4	Guantánamo

Television Nacionale: Addr: Radiocentro, Habana.
D.Prgr: W 16.30-05.00 — **TV sets:** 575.000.

DOMINICAN REPUBLIC

RADIO TELEVISION DOMINICANA (Educ, Comm.)
Addr: Dr. T. Florentino 8, Sto. Domingo. **Te:** 9-2120. **L.P:** Dir. Gen: R. L. Perello. Dir. Tec: W. Neder. Film Buyer: A. de Batista.
Stations: chA4 5/1kW H; Relays: chA2 (Sto. Cerro) 5/1kW H, chA9 (La Cumbre) 0.5/0.1kW — **D.Prgr:** 17.00-04.00.

RAHINTEL TELEVISION (Comm.)
Addr: Centro de los Heroes de Constanza, Sto. Domingo.
Te: 3-1031. **Cable:** Rahin. **L.P:** Gen. Mgr: P. P. Bonilla. Dir. Tec: J. Salazar.
Stations: chA7 (Sto. Domingo) 35/17.5kW H; chA11 (Sto. Cerro) 1/0.5kW — **D.Prgr:** 17.00-19.30, 22.00-04.00.
Projected St's: HIZ TV, Sto. Domingo (chA10), R. HIN-TV, Santiago (chA11), Editora del Caribe (chA2 Sto. Domingo, chA13 Santiago) — **TV sets:** 85.000.

EL SALVADOR

CANAL DOS S.A. (Comm.)
Addr: Apartado Postal 720, San Salvador. **Te:** 23-6744. **Cable:** Teledos. **L.P:** Gen. Mgr. & Film Buyer: B. Eserski. Dir. Tec: O. Tario. **Station:** YSR-TV chA2 100/20kW. **D.Prgr:** 17.30-20.00, 23.00-06.00.

CANAL 4 (Comm.)
Addr: Apartado Postal 1375, Salvador. **Te:** 23-1740. **L.P:** Gen. Mgr. & Film Buyer: B. Eserski. Mgr: R. Imberton. Dir. Tec: R. H. Rahn.
Stations: YSU-TV chA4 75/37kW. **D.Prgr:** 18.00-19.30, 23.00-05.00.
TV sets: 50.000.

GUADELOUPE

OFFICE DE RADIODIFF. TELEVISION FRANCAISE
Addr: Pointe à Pitre. **L.P:** see radio. **Station** (System K' 625 lines): Arnouville chK'9 0.1/0.02kW H, Citerne chK'5 0.5/0.1kW H.
D.Prgr: 23.00-02.00. **TV sets:** 9.800 — **ALF:** 100 Frcs.

GUATEMALA

RADIO-TELEVISION GUATEMALA S.A. (Comm.)
Addr: Apt. 1367, Guatemala. **Te:** 42492. **Cable:** Teletenango. **L.P:** Gen. Mgr. & Film Buyer: W. G. Campbell. Dir. Tec: F. Licht.
Station: TGV-TV chA3 80/40kW H. **D. Prgr:** 18.00-06.00.

TELEVICENTRO (Comm.)
Addr: Apt. 1242, Guatemala. **Te:** 65646. **Cable:** TVsiete. **L.P:** Dir. Gen. & Film Buyer: Dr. J. Villanueva P. Dir. of Adm: J. Archila M. Dir. Tec: M. Mazariegos.
Stations: TGAB-TV chA7 5/2.5kW H — **D. Prgr:** 20.00-04.00.

TELE ONCE (Comm.)
Addr: Ca. 20, 5-02, Zona 10, Guatemala. **L.P:** Dir: A. Mourra. Dir. Tec: C. L. Sardá. Dir. Prgr: R. Chenal L.
Station: TGMO-TV chA11 10/5kW. **D. Prgr:** 18.00-20.30, 00.00-06.00.
TV sets: 71.000.

HAITI

TELE-HAITI (Comm.)
Addr: P.O. Box 1126, Port-au-Prince. **Te:** 2278. **Cable:** Telehaiti. **L.P:** Dir. Gen: A. S. Apaid. Dir. Tec: E. C. Gentil. **Station:** 4VMR-TV chA5 2.5/0.6kW H. **D. Prgr:** W 17.00-02.30, Sun 17.00-23.00.
TV sets: 10.000.

HONDURAS (Rep.)

COMPANIA TELEVISORA HONDURENA S.A. (Comm.)
Addr: Apt. Postal 734, Tegucigalpa. **Te:** 2-5514. **Cable:** Television. **L.P:** Dir. Gen: J. R. Ferrari. Dir. Tec: M. Villeda T.
Station: HRTG-TV chA5 4/2kW V. **Rel St's:** HRSU-TV chA9 20kW (El Socorro), HRYA-TV chA13 7kW (San Pedro Sula).
D. Prgr: 17.00-20.00, 23.00-05.00 — **TV sets:** 21.000.

JAMAICA

JAMAICA BROADCASTING CORPORATION (Comm.)
Addr: 5 South Odeon Ave, Kingston. **L.P:** see radio. **Stations:** Kingston chA11 28/0.14kW H, **Relay st's** (Pol: H): Coopers Hill chA7 20.5/10.25 kW, Port Antonio chA8 0.16/0.8kW, Montego Bay chA11 1/0.5kW, Oracabessa chA12 1/0.5kW, Spur-Tree chA13 23/11.5kW, Yallahs chA9 1/0.5kW, Morant Point chA13 1/5W — **D. Prgr:** W 22.30-03.00, Sun 21.00-03.00 — **TV sets:** 50.012.

LEEWARD ISLANDS

LEEWARD ISLAND TELEVISION SERVICES LTD. (Comm, Gov. Participation)
Addr: Belmont Hill, P.O. Box 159, St. John's Antigua. **L.P:** Man. Dir. W. Staskow. St. Mgr: C. Moore. Dir. Tec: S. James.
Stations: ZAL-TV chA10 22kW H. Relay St: chA7 0.1kW H.
D. Prgr: 22.30-03.00. Tests: 21.30-22.30
TV sets: 3500.

MARTINIQUE

OFFICE DE RADIODIFF TELEVISION FRANÇAISE (O.R.T.F.)
Addr: Fort de France. **L.P:** see radio. **Stations** (System K'625 lines): Fort de France chK'4 0.5kW, La Trinité chK'6 0.05kW, Le Precheur ch K'6 0.05kW (planned: Morne Aca 30kW). **D. Prgr:** 23.00-02.00
TV sets: 5438 — **ALF:** Frcs 100,-.

MEXICO

*) = affiliated to Telesistema Mexicano — All st's comm. exc. XEIP.

INSTITUTO POLITECNICO NACIONAL (Cult.)
Addr: Casco de Sante Tomas, México D.F. **Station:** XEIP-TV chA11 5kW.

TELEVISION DE LA FRONTERA S.A.
Addr: Vicente Guerrero 704, Ci. Juarez, Chi. **Station:** XEJ-TV chA5 3.65/1.82kW H.

***TELEVISORA MEXICALI S.A.**
Addr: P.O. Box 1356, Mexicali, BC. **Te:** 2-28-55. **L.P:** Dir. Gen: R. Sánchez de Aparicio. Dir. Tec: E. Bezies. **Station:** XHBC-TV chA3 chA3 30/15kW H. **D. Prgr:** 23.30-08.30.

TELESISTEMA MEXICANO S.A.
Addr: Edif. Televicentro, Av. Chapultepec 18, México, D.F. **Te:** 185020. **L.P:** Pres. & Dir. Gen: E. Azcárraga V. Exec. Vice Pres: R. O'Farrill sen Vice Pres: E. Azcárraga M. Vice Pres: A. R. Cabrera. Dir. of Adm: A. Azuela. Dir. Tec: J. Fdz. Arauna. Dir. of Prgr's: L. de Llano.
Stations: 1) **Cadena Canal 2:** XEW-TV chA2 (DF) 100kW H; XEQ-TV chA9 (Paso de Cortés) 325 kW H; XEZ-TV chA3 (El Zamorano) 100kW; XEWO-TV chA13 (Aguascalientes) 150kW; XHAH-TV chA8 (Las Lajas); XHQ-TV chA3 (Culiacán); XHCV-TV chA3 (Coatzacoalcos); XHA-TV chA10 (Durango); XHKW-TV chA10 (Morelia); XEPM-TV chA2 (Cd. Juáraz); XHJ-TV chA2 (Cd. Obregón); XHIA-TV chA2 (Torreón); XHOW-TV chA12 (Mazatlán); XHCG-TV (Los Mochis); XHFI-TV chA5 (Chihuahua); XEFB-TV chA3 (Monterrey); XHG-TV chA4 (Guadalajara); XEWH-TV chA6 (Hermosillo); XHGO-TV chA7 (Tampico); XEFE-TV (Nvo. Laredo).
2) **Cadena Canal 4:** XH-TV chA4 (DF) 100kW H; XEX-TV chA7 (Paso de Cortés) 325kW; XHZ-TV chA6 (El Zamorano) 100kW; XHAI-TV chA10 (Las Lajas)
3) **Cadena Canal 5:** XHGC-TV chA5 (DF) 100kW H; XHAJ-TV chA6 (Las Lajas) — **D. Prgr's:** for all st's: 24 h.

TELEVISION INDEPENDIENTE DE MEXICO S.A.
Addr: P.O. Box 1833, Monterrey, NL. **L.P:** Dir. Gen: A. Flores Ysita. Dir. Tec: R. Rueda. Dir. Prgr: J. Alvarino. Film Buyer: A. Roque. **Stations:** Monterrey chA6 80/40kW H, Mexico chA8 316/79kW H, Puebla chA3 6/1.5kW H, Veracruz chA2 12.5/3.1kW H.
D. Prgr: A6: 18.00-06.00; A2-21.30-04.30; A3: 23.00-05.30.

TELEVISION DE MICHOACAN S.A.
Addr: Lejarza 90, Morelia, Mich. **Station:** XEKW-TV chA10 6kW.
D. Prgr: 22.00-06.00.

RADIO TELEVISION S.A.
Addr: Apt. Postal 121, Tijuana, BC. **Station:** XE-TV chA6 100/50kW H. **D. Prgr:** 15.00-07.00 (incl. color TV).

***TELEVICENTRO DE MONTERREY,**
Addr: Espinosa 780 Pte. Monterrey, NL. **Te:** 36275. **Stations:** XEFB-TV chA3 5/2.5kW H. **D. Prgr:** 18.00-06.00. XHX-TV chA10 5/2.5kW
D. Prgr's: 18.00-06.00.

***TELEVISION DE NUEVO LAREDO.**
Addr: Aldama 2611, Nuevo Laredo, Tams. **Te:** 2182. **L.P:** Gen. Mgr: R. Tijerina C. **Station:** XEFE-TV chA2 0.5kW — **XEBR-TV** chA11 1.5/0.75kW H. **D. Prgr:** 00.00-06.00.

TELEVISION TAPATIA S.A.
Addr: P.O. Box 5, Guadalajara, Jal. **Te:** 37525. **L.P:** Gen. Mgr: M. Bauche. Dir. Tec: Ing. C. Sánchez. Film Buyer: E. Meludis C. **Station:** XEHL-TV chA6 6/3kW H. **D. Prgr:** 21.00-06.00.

'TELEVISORA DE LA LAGUNA.
Addr: Av. Angel Urraza y Ca. F. Rodriguez, Torreon, Coah. **Station:** XELN-TV chA4 4/2kW H.

'TELEVISORA DE CHIHUAHUA S.A.
Addr: Chihuahua, Chih. **Station:** XHFI-TV chA5 0.4/0.2kW H.

TELEVISORA DE HERMOSILLO S.A.
Addr: P.O. Box 603, Hermosillo, Son. **Te:** 38855. **Telex:** 058828. **L.P:** Gen. Mgr: R. Azcarraga R.R. Dir. Tec: E. Alvarez P. Film Buyer: L. Herrera F. **Station:** XEWH-TV chA6 1.2/0.6kW H. **D. Prgr:** 22.00-06.00.

'TELEVISORA DE OCCIDENTE S.A.
Addr: Av. Alemania 285, Guadalajara, Jal. **Te:** 44140. **Stations:** XEWO-TV chA2 5/2.5kW H, XHG-TV chA4 5/2.5kW. **D. Prgr:** XEWO-TV: As Telesistema Mexicano 1st Netw. XHG-TV: 18.00-07.00.

'TELEVISORA DE CALIMEX S.A.
Addr: Apt. Postal 12, Tijuana, BC. **Station:** XEWT-TV chA12 66/33kW H. **D. Prgr:** 00.00-08.00.

'TELEVISORA DE NOGALES S.A.
Addr: A. Alvaro Obregón 138, Nogales, Son. **Te:** 562. **Station:** XHFA-TV chA2 8/4kW. **D. Prgr:** 00.00-07.00.

TELEVISORA DE YUCATAN S.A.
Addr: Apt. Postal 152, Merida, Yucatan. **Te:** 19171. **L.P:** Dir. Gen: A. Garcia Lavin, C.P.T. Dir. Tec: H. Padron M. Film Buyer. F. Leon M. **Station:** XHY-TV chA3 5/1kW H. **D. Prgr:** 22.00-06.00. Sun 16.00-06.00.

TELEVISORA PENINSULAR S.A.
Addr. & L.P: as for Televisora De Yucatan. **Station:** XHTP-TV chA9 5/1kW H. **D. Prgr:** 23.00-05.00.

TELEVISORA DE CAMPECHE S.A.
Addr: Apt. Postal 152, Merida, Yucatan. **L.P:** Dir. Tec: E. Castro R. Other personnel as TV de Yucatan. **Station:** XHAN-TV chA12.

TELEVISION DE COLIMA S.A.
Addr: Anillo Circunvalación 1080 Nte. Colima, Col. **Station:** XHCC-TV chA5 1/0.5kW.

'TELEVISION DEL GOLFO.
Addr: Apt. Postal 751, Veracruz, Ver. **Station:** XHFM-TV chA2 14.2/7.45kW H. **D. Prgr:** 22.00-06.00.

TELEVISION DE ENSENADA
Addr: Av. Punta Banda y Eugenia, Fraccionamiento Chapultepec, Ensenada, B.C. **Station:** XHS-TV chA23 0.4/0.2kW.

UNIVERSIDAD DE SONORA,
Addr: Hermosillo, Son. **Te:** 37905. **L.P:** Dir. Gen. & Dir. Tec: M. R. Canale. **Station:** XHUS-TV chA8 1.6/0.25kW H. **D. Prgr:** 02.00-05.00.

TELEVISORA DEL YAQUI,
Addr: 5de Febrero 8, Ci. Obregon, Son. **L.P:** Dir. Gen: R. Azcarraga R.R. Mgr: C. Enciso V. Dir. Tec: E. Burgos M. **Station:** XHI-TV chA2 8/4kW H.

TELEVISION MEXICANA INDEPENDIENTE,
Addr: Av. Insurgentes Sur 1870, Mexico D. F. **Station:** chA13 — **TV sets:** 2,200,000.
Other st's: XHT-TV chA10 (Televisora de León Guanajuato, León); XHAW-TV chA12 (Paricutin Sur 316, Monterrey); XHCH-TV chA2 (Impulsora de Televisión de Chihuahua, Chihuahua); XHJMA-TV chA3 (Tinajas-Parraz); XEMZ-TV chA7 (Televisora del Pacifico, Mazatlán, Sin); XHAL-TV chA4 (Televisora de Acapulco, Cerro de los Lirios, Gro.).

NETHERLANDS ANTILLES

TELECURAÇAO (Comm.)
Addr: P.O. Box 415, Curaçao. **Te:** 13140. **Cable:** Telecuraçao. **L.P:** Pres: G. A. Bartell. Gen. Mgr. & Film Buyer: E. C. Hernandez. Chief Eng: P. J. Hoogesteger. **Station:** chA8 2kW H. **D. Prgr:** 20.30-04.00.

TELEARUBA (Comm.)
Addr: P.Q. Box 392 1A, Aruba. **Te:** 7302. **Cable:** Telearuba. **L.P:** See Telecuraçao. **Station:** chA12 3kW. **D. Prgr:** 22.00-04.00
TV sets: 29,000 (Curaçao + Aruba).

NICARAGUA

TELEVISION DE NICARAGUA (Comm.)
Addr: Apt. 1505, Managua. **Te:** 5404. **Cable:** Tevenic. **L.P:** Gen. Mgr: R. O. Cano. Asst. Mgr: R. A. Silva. Dir. Dir: F. Cruz R. Sales. Mgr: O. Miranda. **Stations:** chA6 80/20kW H, chA8 0.3/3/0.15kW H. **D. Prgr:** 18.00-20.00, 23.00-05.00.

TELECADENA NICARAGUENSE (Comm.)
Addr. & L.P: see TV de Nicaragua. **Station:** chA4 12/6kW H. **D. Prgr:** 23.00-05.00 — **TV sets:** 35,000.

PANAMA

CIRCUITO RPC-TELEVISION (Comm.)
Addr: Apt. 1795, Panama 1. **Te:** 5-0160. **L.P:** Pres: F. Eleta A. Gen. Mgr: & Film Buyer: J. de la Guardia Jr. Dir. Tec: L. O'Meally.
Stations: HOH21 TV chA4 288/28.8kW; David chA6 31.5/6kW H; Sona chA7 7.95/3.98kW; Las Margaritas chA12 25/12.5kW (rel. chA4); Bocas del Toro chA12 0.32/0.16kW; Atalaya chA3 16/3.2kW.
D. Prgr: 16.00 (Sat 15.30, Sun 14.00)-05.00.

TELEVISORA NACIONAL S.A. (Priv, Comm.)
Addr: Apt. 8371, Panama. **Te:** 3-1724. **Cable:** Tenesa. **L.P:** Gen. Mgr: R. G. de Paredes C. Dir. Tec: J. Stabile. **Stations:** HOU34-TV chA2 90.45W; Repeaters: Las Margaritas chA6 20/10kW, Altamira chA9 8/4kW, C. de Piedra chA2 1.25/0.625kW. **D. Prgr:** 16.30-05.00 — **TV-sets:** 100,336.

PUERTO RICO

STATIONS: All comm. exc. 2) and 5):

Call	chA	kW	Call	chA	kW
1) WKAQ-TV	2	100/20	7) WSUR-TV	9	0.83/0.537
2) WIPM-TV	3	35.5/5.37	8) WKBM	11	316/53.2
3) WAPA-TV	4	53.7/8.1	9) WOLE-TV	12	17.88/3.55
4) WORA-TV	5	100/20	10) WTSJ-TV	18	302/40
5) WIPR-TV	6	53.7/5.37	11) WITA-TV	30	625/62.5
6) WRIK-TV	7	63.1/12.6			

1) **Telemundo Inc.** Box 5096, San Juan 00906. **L.P:** Gen. Mgr: R. Ruiz.
2) **Dept. of Education,** Box 449, Mayaguez. **L.P:** Gen. Mgr: J. Delano.
3) **WAPA TV Broadc. Corpo,** Box 2050, San Juan. **L.P:** Gen. Mgr: H. Modestti.
4) **Quality Telecasting Corpo,** Box 43, Mayaguez 00708. **L.P:** Dir. Gen: G. A. Tryon. Dir. Tec: N. Nicolau. Film Buyer: J. Diaz.
5) **Dept. of Education,** Box 909, Hato Rey. **L.P:** Gen. Mgr: J. Delano.
6) **Ponce TV Corpo,** Ponce International Hotel, Ponce. **L.P:** Gen. Mgr: R. Royo Jr.
7) **WSUR-TV,** Box 471, Ponce. **L.P:** Pres. and Gen. Mgr: R. Perez Perry.
8) **WKBM-TV,** Box 4189, San Juan 00905. **L.P:** Gen. Mgr: Miss C. Junco. Dir. Tec: R. P. Perry. Film Buyer: H. Rodriguez. **D.Prgr:** 14.00-02.30.
9) **Western Broadc. Corpo of Puerto Rico,** Box 2050, San Juan 00902. **L.P:** Gen. Mgr: C. Rivera.
10) **Tele San Juan Inc,** Box 1313, San Juan. **L.P:** Pres: O. R. Chalk.
11) **El Imparcial Broadc. Corpo,** Apt. 2692, San Juan. **TV sets:** 400,000.

TRINIDAD & TOBAGO

TRINIDAD AND TOBAGO TELEVISION CO. LTD.
Addr: Television House, 11B Maraval Rd, Port of Spain. **Te:** 24141. **Cable:** Television. **L.P:** Gen. Mgr: F. A. Rawlins. Chief Eng: C. D. Parris. Sales Mgr: L. Rochard. Dir. Prgr: B. Gordon.
Station: chA13 60/30kW H, chA2 15/7.5kW (relay).
D.Prgr: 21.30 (Sat/Sun 21.00)—04.00. **Fi:** A joint priv. enterprise between majority joint shareholders, Rediff. International Ltd. and Greenwood Finance Ltd, with Participation by CBS and Gov.
TV sets: 41,900—**ALF:** $20.00.

VIRGIN ISLANDS (American)

ISLAND TELERADIO SERVICE INC. (Comm.)
Addr: P.O. Box 1947, St. Thomas. **L.P:** see radio.
Station: chA10 2.5/1.25kW. **D.Prgr:** 20.00 (Sun 19.30)-03.30.
TV sets: 15,000.

SOUTH AMERICA

ARGENTINA

STATIONS: Comm. st's:

Call	chA	kW(ERP)	Call	chA	kW(ERP)
1) LS86	2	100/50	16) LV83	9	70/14
2) LT83	3	90/45	17) LU85	9	3.5/0.7
3) LT84	5	120/60	18) LT81	9	5/2.5
4) LV84	6	0.12/0.06	19) LU82	10	80/16
5) LS82	7	42/21	20) LV80	10	0.35/0.175
6) LU81	7	60/30	21) LW83	10	0.5/0.125
7) LU84	7	120/60	22) LS84	11	120/60
8) LV89	7	2/1	23) LW82	11	10/5
9) LW80	7	5/2.5	24) LU87	11	3.5/0.7
10) LW81	7	4/2	25) LV81	12	58/11.6
11) LU86	8	80/40	26) LS85	13	115/57.5
12) LV82	8	16/4	27) LT80	13	6/3
13) LS83	9	150/100	28) LT82	13	100/50
14) LU80	9	45/22.5	29) LU88	13	3.5/0.7
15) LU83	9	120/60			

1) Calle 36, No. 382, La Plata. **Te:** 4510. **L.P:** Dir: M. Morano. **D.Prgr:** 20.00-05.00.
2) San Lorenzo 2243, Rosario. **Te:** 45816. **L.P:** Dir: A. C. Gollán. Dir. Tec: E. J. Daumas. Film Buyer: G. Strazza. **D.Prgr:** 14.00-04.00.
3) Av. Belgrano 1055, Rosario. **Te:** 25894. **L.P:** Dir: O. L. Massa. **D.Prgr:** 13.45-04.30.
4) Luzuriaga 360, San Rafael, Mendoza. **Te:** 2454. **L.P:** Dir: A. Espasandin. **D.Prgr:** 16.00-18.30, 22.00-04.00.

5) **Primera Televisora Argentina**, Av. Leandro N. Alem 735, Buenos Aires. **Te:** 32-7091. **D.Prgr:** 14.00-04.30. (Relay st's in Rosario, Santa Fe and Chivilcoy).
6) **Telba S.A**, Blandengues 225, Bahia Blanca. **Te:** 29630. **L.P:** Dir. Gen: J. C. di Gregorio. Dir. Tec: O. Luis. **D.Prgr:** 16.00-04.30.
7) **Neuquén T.V.S.A**, Prolong Avda. Argentina, C.C.113, Neuquén. **Te:** 2271. **L.P:** Dir: A. J. Sánchez. Dir. Tec: H. P. Borruat. **D.Prgr:** 2271. **L.P:** Dir: A. J. Sánchez. Dir. Tec: H. P. Borruat. **D.Prgr:** 22.00 (Sun 21.00)-04.30.
8) **Difusora Mendoza**, Garibaldi 7, Mendoza. **Te:** 19273. **D.Prgr:** 13.30-05.00.
9) **R. Visión Jujuy S. A**, Av. de 19 de Abril 749, San Salvadore de Jujuy. **L.P:** Dir. Gen: S. Grinman. Dir. Tec: R. Francisco E. **D.Prgr:** 22.30-04.00.
10) **Tele-Siete**, Pellegrini 345, Stgo. del Estero. **Te:** 3333. **L.P:** Dir: A. Alvarez V. **D.Prgr:** 22.00-04.00.
11) **Difusora Marplatense**, Av. Luro 2907, Mar del Plata. **Te:** 23046. **L.P:** Mgr. & Film Buyer: O. Viña. Dir. Tec: J. A. Suarez. **D.Prgr:** 21.30-03.00.
12) Rivadavia 22 Este, San Juan. **Te:** 7174. **L.P:** Dir: J. E. Estornell. Dir. Tec: A. E. Lund. **D.Prgr:** 15.00-03.00.
13) **Canal 9 Libertad**, Castex 3345, Buenos Aires. **Te:** 72-3075. **L.P:** Dir: A. Romay. Gen. Mgr: D. Sadrinas. Dir. Tec: D. A. Pérez. **D.Prgr:** 13.00-04.00.
14) **Telenueva**, Sarmiento 54, Bahia Blanca. **Te:** 30131. **L.P:** Dir: Sra. D. J. de Massot. Dir. Tec: F. de Beistegui. **D.Prgr:** 14.00-05.00.
15) **Comodoro Rivadavia TV**, Rawson 1459, Comodoro Rivadavia.
16) **Cuyo Televisión S.A**, San Martin 1027, Mendoza.
17) **Gobierno de Santa Cruz**, Rio Gallegos, Santa Cruz.
18) **TV-Resistencia S.A**, Av. Alvear 50, Resistencia, Chaco.
19) **TV Mar del Plata S.A**, Independencia 1163, Mar del Plata. **Te:** 41003. **L.P:** Dir: V. C. Madariaga. **D.Prgr:** 16.00-05.00.
20) **Universidad Nacional de Córdoba**, Rivera Indarte 170, Córdoba. **Te:** 31986. **L.P:** Dir. Gen: O. José R. Dir. Tec: H. P. Blesio. Film Buyer: J. A. Olmedo G. **D.Prgr:** 23.30-04.00.
21) **Televisora de la Universidad Nacional Tucumán**, Av. 9 de Julio 629, San Miguel de Tucumán. **Te:** 20426. **L.P:** Dir. Gen: J. Guillermo L. **D.Prgr:** 23.30-03.30.
22) **Teleonce**, Pavón 2444, Buenos Aires. **Te:** 91-9232. **L.P:** Dir: P. Simoncini. Dir. Tec: C. A. Fernández. **D.Prgr:** 11.00 (Sun 10.00)-01.30.
23) **Cortesa**, España 465, Salta. **Te:** 17960. **L.P:** Dir. & Film Buyer: M. Cornejo I. Dir. Tec: R. Gallo S. **D.Prgr:** 22.30-04.00.
24) **Servicio Oficial de Televisión**, Manzana 43, Ushuaia, Tierra del Fuego. **Te:** 299. **L.P:** Dir: E. Nocolas P. Dir. Tec: A. Bozzani. **D.Prgr:** 22.00-03.00.
25) **Telecor S.A**, Fader 111, Cerro de las Rosas, Córdoba. **Te:** 96081. **L.P:** Dir: M. Peña. Dir. Tec: A. Blaess. Film Buyer: J. L. Romero V. **D.Prgr:** 15.00-04.00.
26) **Rio de la Plata TV**, Cochabamba 1153, Buenos Aires. **Te:** 27-3601. **D.Prgr:** 11.00-05.30.
27) Calle Canal 13 No. 13, Corrientes. **Te:** 3179. **L.P:** Dir: C. A. Smith. **D.Prgr:** 21.00-04.00.
28) **Televisora Santafesina S.A**, Boulevard Gálvez 840, Santa Fe. **Te:** 29959. **L.P:** Dir: M. V. Bobbio. Dir. Tec: E. A. Trovero. **D.Prgr:** 16.00-04.00.
29) **Rio Grande TV**, Manzana 71, Rio Grande, Tierra del Fuego. **L.P:** Dir. Gen: G. Juan Videla. Dir. Tec: R. Rivarola. **D. Prgr:** 00.00-03.00.
TV-sets: 1.950.00.

BRAZIL

ASSOCIAÇAO BRASILEIRA DE EMISSORAS DE RADIO & TELEVISAO (ABERT).
Addr: Av. Rio Branco 4, salas 901-903, Rio de Janeiro. **L.P:** see radio.

DIARIOS E EMISSORAS ASSOCIADOS,
Addr: Rua S. Cabral 103, Rio de Janeiro. **L.P:** see radio.
All st's comm. exc. where indicated.

1) **TELEVISÃO NACIONAL DE BRASILIA (Gov.).**
Addr: C.P.95, Brasilia. **Station:** chA3 2/1kW H.

2) **TELEVISÃO BRASILIA,**
Addr: Av. W3: Setor de Rádio e Televisão, Brasilia, D.F. **Te:** 2-9666. **Telex:** 157. **Stations:** chA6 10/5kW H. **D.Prgr:** 20.15 (Sat 18.10, Sun 17.00)-03.00.

3) **TELEVISÃO ALVORADA,**
Addr: Brasilia. **Station:** chA8 10/6kW H. **D.Prgr:** 15.00 (Sat/Sun 14.00)-03.00.

4) **TELEVISÃO CONTINENTAL,**
Addr: Rua das Laranjeiras 291, Rio de Janeiro. **Te:** 42-6419. **Station:** chA9 10/5kW H. **D.Prgr:** 21.00-04.00.

5) **TELEVISÃO-RIO,**
Addr: Av. Atlantica 4264, Rio de Janeiro. **Te:** 27-0047. **Cable:** Teverio. **L.P:** Dir. Gen: M. Pereira Leite. Dir. Tec: L. Aurani. Film Buyer: H. Porto. **Station:** chA13 36/18kW H. **D.Prgr:** 15.00 (Sat/Sun 14.00)-03.00. **Relay st's:** TV-Guaratingueta chA12 10/6kW, TV-Friburgo chA3 10/5kW H, TV-Volta Redonda chA8.

6) **TELEVISÃO-TUPI,**
Addr: Av. João Luiz Alves 13/13-Urca, Rio de Janeiro, GB. **L.P:** Dir. Gen: Jose Arrabal. Dir. Tec: O. Pagliari. Dir. Prgr. & Film Buyer: D. Costa Lima. **Station:** chA6 25/2.5kW H. (relay st's at Itatiaia, Itapeva, Campos, Guaçui, Juiz de Fora, Vitória. **D.Prgr:** 17.00 (Sat 15.00, Sun 13.00)-03.30.

7) **TELEVISÃO GLOBO,**
Addr: Rua Von Martius 22, Jardim Botanica, Rio de Janeiro. **Te:** 46-8110. **L.P:** Dir. Gen: W. Clark Bueno. Dir. Tec: W. da Silveira Britto. Film Buyer: J. B. de Oliveira Sobrinho. **Stations:** chA4 100/40kW H. **D.Prgr:** 15.00-04.00 (Relay st's: TV Juiz de Fora, TV Lafayette & TV Bauru).

8) **TELEVISÃO EXCELSIOR DE SAO PAULO,**
Addr: Rua Nestor Pestana 196, São Paulo, SP. **Te:** 36-5329. **Station:** chA9 60/30kW. **D.Prgr:** 15.00-05.00. Relay st's at Campinas (chA10), Poços de Caldas, Amparo, Itapetininga, Sorocaba, Itajubá, Casa Branca, Santa Rita, Araraquara, Bariri, Jaú, Garça, Baurú, Botacatú, Tatuí, Santos (chA9), Piracicaba.

9) **TELEVISÃO EXCELSIOR DE RIO DE JANEIRO,**
Addr: Av. Venezuela 43, Rio de Janeiro, GB. **Te:** 23-8185. **Stations:** chA2 100/25kW H. **D.Prgr:** 1500 (Sun 12.00)-05.00.

10) **TELEVISÃO GAUCHA,**
Addr: C. P. 1164, Porto Alegre. **Te:** 48311. **L.P:** Gen. Mgr: M. S. Sobrinho. **Mgr:** J. Sirotzky. Film Buyer: W. Bergesch. **Station:** chA12 150/75kW H (+44 low power satelites). **D.Prgr:** 15.00-03.00.

11) **TELEVISÃO TRIANGULO,**
Addr: Rua Buriti Alegre 1069, Uberlândia, MG. **Station:** chA8 20/10kW. **D.Prgr:** 19.00 (Sun 17.00)-03.00.

12) **TELEVISÃO VILA RICA,**
Addr: Rua Fernandes Tourinho 818, Belo Horizonte, MG. **Station:** chA7 32/15kW H. **D.Prgr:** 20.00-03.00.

13) **TELEVISÃO PAULISTA,**
Addr: Rua das Palmeiras 322, São Paulo. **Cable:** Televisão. **L.P:** Dir. Gen: R. Marinho. Dir. Tec: P. C. da Silva. **Station:** chA5 14/20kW H. (relay st's at Campinas, Santos, Vale do Paraiba, Itajubá). **D.Prgr:** 14.30-05.00.

14) **TELEVISÃO TUPI DIFUSORA,**
Addr: Bairro Sumaré, Rua Catalão 48, São Paulo. **Station:** chA4 6/3kW H. **D.Prgr:** 12.00-03.00 (relay st's: Valinhos, Campinas, Limeira, Analândia, Santa Rita, Ribeirão Preto (chA3), São Carlos, Bragança Paulista, São José do Rio Preto, Bebedouro, Colina, Barretos, Olimpia, Mirassol, Poços de Caldas, Itajubá, Brasópolis, Campos do Jordão, Itatiaia and further cities).

15) **TELEVISÃO CULTURA,**
Addr: Rua Sete de Abril 230, São Paulo. **Te:** 34-4181. **Station:** chA2 8/4kW H. **D.Prgr:** 14.30-04.00.

16) **TELEVISÃO RECORD,**
Addr: Av. Miruna 713, São Paulo. **Station:** chA7 25/12.5kW H. **D.Prgr:** 18.00-03.00 (relay st's at Valinhos chA22 50/25kW, Campos do Jordão chA17, Piracicaba chA19).

17) **RADIO TELEVISÃO BANDEIRANTES,**
Addr: C. P. 372, São Paulo. **Te:** 2821411. **Cable:** Radiantes. **L.P:** Dir. Gen. & Film Buyer: M. Pereira Leite. Dir. Tec: L. Aurani. **Station:** chA13 100/50kW H. **D.Prgr:** 16.30-03.00 (Relay: Santos chA13).

18) **TELEVISÃO RIBEIRÃO PRETO,**
Addr: Rua São Sebastião 506, Ribeirão Preto, SP. **Station:** chA3 2kW H. **D.Prgr:** rel. TV-Tupi Difusora only.

19) **TELEVISÃO-BAURU,**
Addr: Rua P. Ancieta 7-41, Bauru, SP. **Station:** chA2 2/0.5kW H. **D.Prgr:** 15.00-03.00.

20) **TELEVISÃO PIRATINI,**
Addr: Rua 7de Setembro 1123, Porto Alegre, RGS. **L.P:** Dir. Gen: H. Gargiulo. Comm. Mgr: I. J. Tartarotti. Dir. Prgr: A. Sales. **Stations:** chA5 25/12.5kW H (relay st's at Santa Cruz do Sul, B. Gonçalves, Nova Prata, Casca-Marau, Passo Fundo, Pelotas, Osorio, Sta. Maria, São Lourenco, Bom Jesus, Torres, Cachoeira do Sul, Antonio Prado (all in RGS); also Ararangua, Sidorópolis, Criciuma and Tubarão (in SC). **D.Prgr:** 14.45 (Sat 15.00, Sun 11.55)-03.00.

21) **TELEVISÃO ALTEROSA,**
Addr: Rua Afonso Peña 867, Belo Horizonte. **Stations:** chA2 20/10kW H. **D.Prgr:** W 19.00-03.00, Sun 14.00-02.15.

22) **TV-BELO HORIZONTE,**
Addr: Rua Rio de Janeiro 1279, Belo Horizonte, MG. **Station:** chA12 10/5kW H. **D.Prgr:** 15.00 (Sat 14.00)-03.00.

23) **TELEVISÃO ITACOLOMI,**
Addr: C. P. 1753, Belo Horizonte, MG. **Te:** 2-0944. **Telex:** 134. **L.P:** St. Mgr: Dr. P. Cabral. Dir. Tec: V. P. Netto. Dir. Prgr: J. O. Vaz. Film Buyer: P. Leal. **Station:** chA4 40/20kW H. **D.Prgr:** 19.20 (Sat 17.10, Sun 12.50)-02.00.

24) **TELEVISÃO LAFAIETE,**
Addr: Conselhairo Lafaiete, MG. **Station:** chA6 10/5kW H (Relay TV Rio & TV Globo, Rio de Janeiro). **D.Prgr:** 14.30-05.00.

25) **TV MARIANO PROCOPIO,**
Addr: Rua Barãode S. Nepomuceno 197, Juiz de Fora. **Station:** chA10 10/5kW. **D.Prgr:** 18.00-03.00 (Relay TV Tupi, Rio de Janeiro).

26) **TELEVISÃO RADIO CLUBE PERNAMBUCO,**
Addr: Av. Cruz Cabuga 394, Recife, PE. **Te:** 4-1522. **Cable:** Diarbuco. **Station:** chA6 25/15kW H. **D.Prgr:** 19.00-03.00.

27) **TELEVISÃO JORNAL DO COMERCIO,**
Addr: Rua do Lima 240, Recife, PE. **L.P:** Pres: P. Pessoa de Queiroz. **Station:** chA2 25/12.5kW H.

28) **TELEVISÃO PARANA,**
Addr. Rua J. Loureiro 119, Curitiba. **Station:** chA6 2/1kW. **D.Prgr:** 19.00-03.00.

29) **TELEVISÃO PARANAENSE,**
Addr: Senador Slencar Guimarães 97, Curitiba. **Station:** chA12 10/5kW H.

30) **TELEVISÃO CEARA RADIOCLUB,**
Addr: C.P.222, Fortaleza, CE. **Te:** 1-3125. **Cable:** Prenove. **Station:** chA2 3/0.6kW H. **D.Prgr:** 20.00-03.00.

31) **TELEVISÃO ITAPOAN,**
Addr: Rua Gomes 57, Salvador, BA. **Te:** PB/5-1143. **Cable:** Gremio. **L.P:** Dir. Gen: Dr. O. Tavares. St. Mgr: Dr. P. Nacife. Dir. Prgr: M. Augusto. **Station:** chA5 5/1kW H. **D.Prgr:** 19.55 (Sat 17.30, Sun 16.30)-03.00.

32) **TELEVISÃO MARAJOARA,**
Addr: Av. Gov. José Malcher 1332, Belem, PA. **Te:** 3422. **Cable:** Provan. **Station:** chA2 5/1kW H. **D.Prgr:** 20.45 (Sat 20.15, Sun 18.40)-03.00.

33) **TELEVISÃO GOIANIA,**
Addr: C.P.62, Goiânia, GO. **Te:** 64041. **Cable:** Folhago. **Station:** chA4 1/0.25kW. **D.Prgr:** 19.00-03.00.

34) **TELEVISÃO VITORIA,**
Addr: Av. Jeronimo Monteiro 331, 10 and, Vitória, ES. **Te:** 3406. **Cable:** Ravito. **Station:** chA4 5/2.5kW H. **D.Prgr:** 21.10 (Sat 20.00, Sun 19.00)-01.00.

35) **TELEVISÃO BORBOREMA,**
Addr: Rua Venancio Neiva 287, Campina Grande, PB. **Te:** 1961. **L.P:** Dir. Gen: L. M. Alves. Gen Mgr: A. F. de Sales. Dir. Tec: G. O. de Medeiros. **Station:** chA9 10/2kW H. **D.Prgr:** 21.15-02.30.

36) **TV ANHANGUERA,**
Addr: Av. Goiás 31, Goiania, GO. **Stations:** chA2 2/1kW, chA9 0.5/0.25 kW. **D.Prgr:** chA2 18.00-03.00, chA9 21.30-02.30.

37) **TV COROADOS,**
Addr: Av. Tiradentes, Londrina, PA. **Station:** chA3 2/1kW. **D.Prgr:** 20.00-03.00.

38) **TV DIFUSORA DO MARANHÃO,**
Addr: Av. Pedro II 220, São Luiz, MA. **L.P:** Dir. Gen: R. E. Machado Bacelar. Film Buyer & Gen. Mgr: Dr. C. M. Bacelar. Dir. Tec: L. Cardoso de Almeida. **Station:** chA4 10/2kW. **D.Prgr:** 20.00-03.00.

39) **TV GUARANI,**
Addr: R. Alvaro Muller 726, Campinas, SP. **Station:** chA3 1/0.5kW H. **D.Prgr:** 20.00-03.00.

40) **TELEVISÃO MORENA,**
Addr: Av. de Contôrno, Campo Grande, MT (All correspondence to C.P.8000, São Paulo). **L.P:** Mgr. & Dir. Tec: V. G. Pereira. Film Buyer: U. E. Zahran. **Station:** chA6 2.5/1.5kW H(+4 satellites). **D.Prgr:** 20.30-03.00.

41) **TELEVISÃO CENTRO AMERICA,**
Addr: Cuiabá, MT. *Station:* chA4.

42) **TV GUAJARA,**
Addr: T. F. Guimaraes 348, Belém, PA. **Station:** chA5 5/1kW. **D. Prgr:** 20.00-03.00.

43) **TV DIFUSORA PORTO ALEGRENSE,**
Addr: C.P.1474, Porto Alegre, RGS. **L.P:** Mgr: N. E. Dotti. Dir. Tec: Mattiello, Film Buyer: J. Falceta. **Station:** chA10 250/140kW H. **D.Prgr:** 18.00-03.00.

45) **TV UNIVERSIDADE CANAL 11,**
Addr: Rua do Hsopécio 619, Recife, PE. **Station:** chA11 10/2.5kW H. **St's under construction:** Caxias do Sul chA8 1kW, chA9 1kW, Erexim chA2 1kW, Cruz Alta chA3 1kW, Pelotas chA4, Passo Fundo chA7 1kW, (all relay st's for TV-Gaucha)—TV Centro America, Cuiabá chA4 1.5kW(H) & TV cidade Branca, Corumbá chA2 1kW(H) (relay st's for TV Morena).
Projected stations: TV **Farroupilha,** Galeria Rosario 22, Porto Alegre, chA5—TV **Gazeta,** São Paulo chA11 - TV **Brazil Central,** Goiania, chA13—TV **Gualba,** Porto Alegre, chA2—TV **Igulacu,** Curiliba, chA4.
TV-sets: 5,000,000.

CHILE

UNIVERSIDAD DE CHILE (Educ.)
Addr: Inés Matte 825 (or P.O. Box 12985), Santiago. **Te:** 80711. **L.P:** Dir: M. Planet. St. Mgr: S. Escobar. **Station:** chA9 40/20kW V. **D.Prgr:** 21.00-03.30 (Sat/Sun 18.00-04.00).

UNIVERSIDAD CATOLICA (Non-comm.)
Addr: Alameda 340, Santiago. **Te:** 380342; Av. Brasil 2059, Valparaiso. **L.P:** Dir. Gen: E. Tironi Arce. Gen. Mgr: A. Castaneira. Dir. Tec: P. Carabal. Film Buyer: O. Barzelotti.
Station: chA13 8/4kW H. Repeater St: Valparaiso, chA8 1/0.5kW. **D.Prgr:** 18.30-19.30, 22.30-04.00.
TV sets: 150,000.

COLOMBIA

INSTITUTO NACIONAL DE RADIO Y TELEVISION
Addr: Céntro Administrativo Nacionál, Via Aeropuérto Eldorádo, Bogota. **Te:** 446020. **L.P:** Dir. Gen: Dr. W. Fadúl V. Dir. Tec: Dr. J. E. Nassar. Dir. Adm: Dr. G. Rodriguez.
Stations: Bogotá (Alto Magdalena' chA7 10/20kW H, chA9 1/0.25kW, El Cármen de Bolívar chA9 1/0.25kW, Las Jurisdicciónes chA6 10/2kW, Madroño chA11 400/100W, Manizales chA11 1/0.25kW H, Medellín chA3 10/2kW H, Montería chA7 1/0.25kW, Néiva chA11 400/100W H, Pásto chA8 1/0.25kW, Valle del cauca chA8 10/2kW, Popayán (Munchique) chA10 1/0.25kW H, Santa Márta chA2 10/2kW H, Túnja chA10 400/100W.
D.Prgr: 12.00-15.50, 19.10-21.10, 22.25-05.00 (Educational 13.00-15.50, 19.10-21.10, 22.25-22.55). **Projected:** Quibdó Cucuta.

TELEBOGOTA (Official Comm.)
Addr: Ca. 22 No. 5-91, Bogota. **Te:** 434015. **Cable:** Protécnica. **L.P:** Dir. Gen: L. Montéjo. Dir. Tec: M. Aguilár. Film Buyer: C. de Montéjo
Station: chA9 1/0.25kW H. **D.Prgr:** 22.00-04.00.
TV sets: 450.000.

ECUADOR

TELECUADOR S.A. (Comm.)
Addr: Casilla 5902, Guayaquil. **Te:** 22829. **Cable:** Telecuatro. Casilla 70, Quito. **Te:** 217307. **Cable:** Teleseis. **L.P:** Pres: P. Norton. Mgr: M. Luque B. (Guayaquil), J. Vargas (Quito). Mgr: G. Soriano U. Dir. Tec: Q. Ribadeneira. **Stations:** Guayaquil chA4 2/1kW H. Quito chA6 2/1kW H.
D.Prgr: chA4 16.45-04.30; chA6 16.30-04.30.

LA VENTANA DE LOS ANDES (Priv, Non-comm, Cult.)
Addr: Casilla 691, Quito. **L.P:** Dir: R. B. Clark. Dir. Tec: G. Hartwell. **Station:** HCJB-TV chA4 8/4kW H. **D.Prgr:** 23.00-03.45.

CORPORACION ECUATORIANA DE TELEVISION (Comm.)
Addr: Casilla 1239, Guayaquil. **Te:** 22524. **Cable:** Teledos. **L.P:** Dir: Gen: E. Jijón O. Dir. Tec & Film Buyer: C. F. Arosemena.
Station: chA2 10/5kW. **D.Prgr:** 17.00-04.30.

TELESISTEMA DEL ECUADOR (Comm.)
Addr: P.O. Box A36, Guayaquil. **Station:** chA6 2/0.6kW (Guayaquil), chA3 (Cuenca). **D.Prgr:** chA6 21.00-05.30; chA3 23.00-04.00. Projected: chA3 (Ambato), chA2 (Quito).
TV sets: 66.000.

GUIANA (French)

OFFICE DE RADIODIFF. TELEVISION FRANÇAISE (ORTF)
Addr: B.P.336, Cayenne. **Te:** 955. **L.P:** St. Mgr: A. Guillaume. Film Buyer: C. Pierre. **Station** (System K'625 Lines): Cayenne ch k'4 0.04 kW H. **D.Prgr:** 23.00-02.00.
TV sets: 2500—**ALF:** 100 Frcs.

PARAGUAY

TELEVISION CERRO CORA S.A. (Comm.)
Addr: Ind. Nacional 349, 2° piso, Of. 205, Asunción. **Te:** 4398. **L.P:** Gen. Mgr: A. Ramirez G. St. Mgr: J. Sedano A. Dir. Adm: Dr. C. Morinigo D. Dir. Tec: A. Ellman. **Station:** chA9 6/3kW. **D.Prgr:** 21.00-04.30.
TV sets: 13.000.

PERU

Cultural

Addr: Ministerio de Educación Publica, Dirección de Cultura, Lima. **Te:** 75737. **L.P:** Dir: R. Garrido M. Dir. Tec: A. E. Mousalve. **Station:** OAD- TV chA7 150/75W H.

Commercial

TELEVISORA AMERICA,
Addr: Montero Rosas, Lima. **Te:** 42919. **L.P:** Gen. Mgr: N. Gonzalez. Dir. Tec: D. Capella. **Station:** OAKX4U-TV Lima ch4 18/9kW. Relay St: Huacho chA6.

TELEVISORA PANAMERICANA,
Addr: Av. Arequipa 1110, Lima. **Te:** 23240. **L.P:** Gen. Mgr: G. Delgado P. Dir. Tec: G. Reusens. **Stations:** OAY4A-TV Lima chA5 72/15kW H; Relay st's Chiclayo, Chimbote chA9, Trujillo, Piura ch A7. **D.Prgr:** 16.30-05.00.

TELEDOS,
Addr: Av. Tacna 225, Lima. **Te:** 81694. **L.P:** St. Mgr. and Film Buyer: A. Prada. Dir. Tec: E. Fromcke. **Station:** OAX4X-TV Lima chA2 5/2.5kW V. **D.Prgr:** 17.00-05.00.

TELEVISORA BEGO,
Addr: Av. Manco Capac 333, Lima **L.P:** Gen. Mgr: A. Belmont. **Station:** chA11 7/3.5kW.

TELEVISORA EL SOL,
Addr: Av. Uruguay 355, Lima. **Te:** 35945. **L.P:** Dir. Gen: A. Pereyra. Gen. Mgr: N. Gonzales V. **Station:** OBX4X-TV chA9 10/5kW H. (Relays: Huacho chA7, Ica chA11.) **D.Prgr:** 23.30 (Sun 23.00)-05.00.

TELEVISORA PERUANA,
Addr: Cas. 514, Arequipa. **Te:** 3090. **Stations:** chA2 0.5/25kW. **D.Prgr:** 18.00-04.30.

TELEVISORA CONTINENTAL,
Addr: M. de Orberoga 338, Arequipa. **Te:** 7214. **Station:** chA6 8/4kW H. (Relays: Tacna chA6, Ilo chA4, Mollendo and Toquepala chA2).
D.Prgr: 20.00-05.00.
TV sets: 310.000.

SURINAM

SURINAAMSE TELEVISIE STICHTING (Gov.)
Addr: P.O. Box 271, Paramaribo. **L.P:** see radio. **D.Prgr:** Operating evenings only.

URUGUAY

SAETA (Sociedad Anomina de Emisoras de Television y Anexos) (Comm.)
Addr: Tacuarembo 1234, Montevideo. **Te:** 4-4034. **Cable:** Saeta. **L.P:** Pres: R. Fontaina. Vice Pres: J. E. De Feo. Gen. Mgr. and Film Buyer: R. Fontaina Jr. Dir. Tec: A. Galimberti. Sales Mgr: M. Fontaina. **Station:** chA10 2.5/1kW H. **D.Prgr:** Mon-Fri 13.15-03.15, Sat/Sun 13.40/03.15.

SODRE (Servicio Oficial de Difusión Radio Electrica).
Addr: Boulevard Colorado 2362, Montevideo. **L.P:** See radio. **Station:** chA5 32/16kW. **D. Prgr:** 20.30-03.00.

TELEVISORA LARRANAGA S.A. (Comm.)
Addr: Enriqueta Compte y Rique 1276, Montevideo. **Te:** 25856. **L.P:** Gen. Mgr. and Film Buyer: H. Schek. Comm. Mgr: R. Rodriguez. Dir. Tec: M. Giampetro. **Station:** CXA12-TV chA12 40/20kW H. **D.Prgr:** 12.35-03.00.

MONTE CARLO TV (Comm.)
Addr: Av. 18 de Julio 1855, Montevideo. **Cable:** Montecarlotv. **Te:** 402146. **L.P:** Dir. Gen: H. Romay Salvo. Dir. Tec: J. Goyret. **Station:** chA4 32/16kW H. **D.Prgr:** 12.35-03.30.

RIO URUGUAY TV (Comm.)
Addr: Zorilla y Argentina, Fray Bentos. **Te:** 144, **L.P:** Dir. Gen: D. Romay Salvo. **Station:** chA12 1kW. **D.Prgr:** 22.00-23.00, Sat and Sun also 17.00-20.00.

CANAL 9 DEL ESTE (Comm.)
Addr: Punta Ballena, Maldonado. **Te:** 982729. **L.P:** Dir. Gen: A Zamora. **Station:** CXA-TV chA9.

TELE ROCHA (Comm.)
Addr: Av. O. de los Santos 105, Rocha. **Te:** 515. **L.P:** Dir. Gen: M. Scherchener. Dir. Prgr: C. Alberto A. Dir. Tec: F. E. Elorza. Film Buyer: L. W. Ragazoni. **Station:** chA7 0.25/0.1kW H. **D.Prgr:** 22.00-02.30.

TELE-ARTIGAS (Comm.),
Addr: Lecueder 291, Artigas. **Te:** 47. **L.P:** Dir. Gen: L. Murillo M. Dir. Tec: L. Nicolini. **Station:** chA3 0.5kW. **D. Prgr:** 21.00-02.00.

TELEVISORA TACUAREMBO (Comm.)
Addr: 18 de Julio 244, Tacuarembo. **Te:** 250. **L.P:** Dir. Gen: Luis S. Dini. **Station:** chA7. **D. Prgr:** 22.20-02.00.
TV sets: 215.000.

VENEZUELA

Def: 625—**Ch:** A—**Pol:** H.

TELEVISORA NACIONAL (Gov.),
Addr: Apt. 3979, Caracas. **Te:** 545436. **L.P:** Dir. Gen: P. Francisco L. Dir. Tec: A. Burgos. **Station:** YVKA-TV chA5 400/200kW. **D. Prgr:** 21.30-04.30.

ONDAS DEL LAGO TV (Comm.)
Addr: Apartado 261, Maracaibo. **Cable:** Lagonda. **L.P:** Pres: G. Cristalino. **Station:** chA13 12/6kW H. **D.Prgr:** 18.00-04.00.

R. CARACAS TV (Comm.),
Addr: Apt. 2057, Caracas. **Te:** 418971. **L.P:** Gen. Mgr: G. Tucker. Dir. Tec: A. H. Guia. Film Buyer: P. Bottome. **Stations** YVVA-TV Caracas chA2 60/30kW Repeaters: Maracaibo chA2 66/33kW, Barquisimeto chA3 40/20kW, Barcelona chA3 100/50kW, Litoral Central chA7 10/5kW, Lago Valencia chA7 88/44kW, Trujillo chA7 275/137.5 W, Merida chA7 400/200 W, Táchira chA7 50/25kW, Pto. Cabello chA10 10/5kW, Falcón chA10 330/165kW. **D. Prgr:** 09.00-04.00. **Stations: under construction:** Ci. Bolivar chA2 0.125kW, El Tigre chA10 10kW.

R. VALENCIA TV (Comm.),
Addr: Apartado 248, Valencia. **L.P:** Dir. Gen: M. Aché G. Dir. Tec: S. Serrera. **Stations:** YVXO-TV Valencia chA13 12/6kW, Caracas (repeater) YVXD-TV chA13 160/80kW. **D.Prgr:** 22.30-04.30.

VENEVISION (Comm.),
Addr: Apt. 6674, Caracas. **Te:** 722741. **Cable:** Ventel. **L.P:** Gen. Mgr: E. Cuscó. Operations Mgr: R. López G. Film Buyer: I. Klein. **Stations:** YVXA-TV Caracas chA4 90/22.5 kW. Repeaters: Picacho YVXB-TV chA9 76/19kW, Terepaima YVXC-TV chA6 65/16kW, Maracaibo YVXD-TV chA4 35/8.5kW, Litoral YVXE-TV chA9 18/4.5kW, Curiamagua YVXF-TV chA12 1.5/0.38kW, Valencia YVXG-TV chA4 0.6/0.15kW, San Cristóbal YVXH-TV chA9 3/0.75 kW, Sabana Larga YVXI-TV chA7 160/40kW. **D.Prgr:** 19.00-04.00.

CADENA VENEZOLANA DE TELEVISION (Colour Television),
Addr: Apartado 2739, Caracas. **Te:** 349571. **Cable:** Colteve. **L.P:** Dir. Gen: F. Cardona Moreno. Dir. Tec: S. Aguerrevere. **Stations:** YVUA-TV Caracas chA8 160/80kW; Repeaters: Barquisimeto chA7 110/55kW, Maracaibo chA8 157/73.5kW, La Guaira chA11 6.3/3.1kW, Valencia chA11 151/75.5kW. Puerto la Cruz chA11 23/11.5kW.

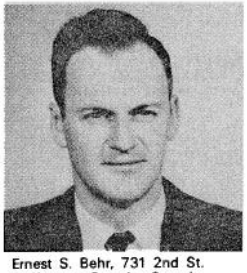
CANAL ONCE TV (Comm.),
Addr: la Avenide Sta. Eduvigis, Caracas. **Station:** YVPX-TV Caracas chA11 125/62.5kW H. **D.Prgr:** 20.00-03.00. **F.Pl:** chA3 100/20kW to cover Valencia, Maracay and La Victoria.
TV sets: 652.400.

CO-OPERATORS & MONITORS

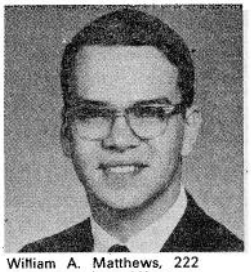
Gerry L. Dexter, Rt 1, Maple Rd, Lake Geneva, Wis. 53147, U.S.A.

William Putney, 95 Cedar Lane, Princeton, N.J, U.S.A.

Gilberto A. Santos, Rua Pareto 20/204, Rio de Janeiro, Brazil.


Ernest S. Behr, 731 2nd St. S. Kenora, Ontario, Canada.

Jack K. Adams, Rt 1, Iberia, Missouri 65486, U.S.A.


William A. Matthews, 222 Hodgson Ave, Houston, Penna 15342, U.S.A.

PROGRAM DISTRIBUTORS

ABC Films Inc, 1330 Ave. of the Americas, New York, NY 10019.
Branches: ABC Films of Canada Ltd, 45 Charles St, East Toronto
ABC Films Inc, Glarnischstr. 22, 8712 Stafazh, Switzerland
Talent Promotion of Australia Pty Ltd, 105 Walker St, North Sydney, N.S.W. Australia
Century Publicidade Ltda, Rue da Lapa 120-3 Andar, Rio de Janeiro, Brazil
TV Interamericana Do Brazil Ltda, P.O. Box 6197, São Paulo, Brazil
Mrs. R. Wilson, 37 Longfield House, 18/20 Uxbridge Rd, Ealing W.5. England
Diane Abramson, Piazza San Salvatore In Laura, 13/Apt. 8, Rome, Italy
RayFalk, Asahi Shimbun Bldg, Rm 615, 32-chome, Yuraku-cho, Chiyoda-ku, Tokyo, Japan
TV Interamericana S.A., Porfirio Diaz 195, Mexico 12, D.F.
TV Representations, Diego Ferre 216, Miraflores, Lima, Peru
Pla Alfredo, c/Maria de Molina 1, Madrid 6, Spain
ABC Films Inc, 1313 N. Vine St, Hollywood, Calif. 90028
ABC Television Network, 1330 Ave. of the Americas, New York, NY, 10019
Branches: 190 N. State St, Chicago 1, Illinois
277 Golden Gate Ave, San Francisco, Calif.
4151 Prospect Ave, Hollywood 27, Calif.
20777 W. Ten Mile Rd, Northwestern Hwy, Detroit, Michigan
ABC Television Ltd, Vogue House, Hanover Square, London W.1, England
Acme Film and Videotape Laboratories Inc, 1161 N. Highland Ave, Hollywood, Calif. 90038
Air Programs International, 38 Martin Place, Sydney, Australia
M & A Alexander Productions Inc, 8530 Wilshire Blvd, Beverly Hills, Calif.
Allied Artists TV Corp, 165 West 46th St, New York, NY
American International TV Inc, 165 West 46th St, New York
Branch: 7165 Sunset Blvd, Los Angeles, Calif.
Anglia Television Ltd, Brook House, Park Lane, London W.1, England
ARN Broadc. Corpo, 119 W. 57th St, New York, NY 10019
ATV Network, 17 Great Cumberland Place, London W.1, England
Branches: Independent Television Corp, 555 Madison Ave, New York, NY 10022
ITC of Canada Ltd, 100 University Ave, Toronto 1, Canada
Atlantic Television Inc, 130 West 46th St, New York, NY
Avaco Broadc. Corpo, 1600 Provident Tower, Cincinnati, Ohio 45202
Award Films, 20 North Wacker Dr, Chicago, Ill. 60606
George Bagnall & Associates, Inc, 8827 Olympic Blvd, Beverly Hills, Calif.
Banner Films Inc, 527 Madison Ave, New York, NY 10022
Ben Barry & Associates, 155 East 55th St, Penthouse E, New York, NY 10022
BBC Television Enterprises Inc, Television Centre, London W.12, England
Branch: 630 Fifth Ave, New York, NY 10020
Big Fights Inc, 9 East 40th St, New York, NY 10016
Mel Blanc Associates Inc, 1591 Crossroads of the World, Hollywood, Calif. 90028
Border Television Ltd, 14 Curzon St, London W.1, England
Braverman/Shaw & Associates, Box 621, Santa Monica, Calif. 90406
Buena Vista Distributing Co, 477 Madison Ave, New York, NY 10022

CBS Films Inc, 51 West 52nd St, New York, NY 10019
Branches: CBS (Europe) S.A, Chamerstr. 18, 1600 Zug, Switzerland
CBS (Europe) S.A, Succursale Italiana, 45 Via Ludovisi, Rome, Italy
CBS Ltd, Villiers House, Strand, London W.C.2, England
CBS Japan Inc, Mitsuwa Bldg. 5, Nishi 6-chome, Ginza, Chuo-ku, Tokyo, Japan
CBS Films Pty Ltd, Suite 2, Colman House, Bery & Walker St, North Sydney, Australia
Taiyang Trading Co, 60-1 Ka, Myung-Dong Chung-Ku, Seoul, Korea
African Films & Features (Pty) Ltd, 806 Central House, 3 Central Ave, Salisbury, Rhodesia
Moral Yousuf Bahbehani, P.O. Box 146, Kuwait
CBS (Europe) S.A, Georgenstr. 27, Munich 13, Germany
Agence Française De Television, 12 Rue Gaillon, Paris, France
CBS Films Canada Ltd, 45 Charles St, East, Toronto 5, Canada
CBS Filmes do Brazil Ltd, Caixa Postal 30554, São Paulo, Brazil
CBS (Europe) S.A, P.O. Box 3627, Lagos, Nigeria
CBS (Europe) S.A, P.O. Box 2604, Beirut, Lebanon
CBS Latino Americana Inc, 100 Biscayne Blvd, Miami, Florida
CBS Films Inc, 6121 Sunset Blvd, Hollywood, Calif. 90028
CBS Television Network, 51 West 52nd St, New York, NY 10019
Branches: 630 North McClurg Court, Chicago Ill. 60611
932 Fisher Bldg, Detroit, Michigan 48202
7800 Beverly Blvd, Los Angeles, Calif. 90028
S. W. Caldwell Ltd, 447 Jarvis St, Toronto, Canada
Cavalcade Television Program, 959 North Fairfax Ave, Hollywood, Calif.
Canadian Broadc. Corpo, Canada: CBS Export Sales: P.O. Box 500, Toronto, Ont (for English Prgrs); P.O. Box 6000, Montreal, Que (for French prgrs)
European Sales: Global TV Std, 3 Vere St, London W.1, England
Japanese Sales: Intervision Inc, No. 205, 15-6, 7-chome, Akasaka, Minatoku, Tokyo, Japan
Channel Television, 195 Knightsbridge, London S.W.7, England
Cheryl TV Corp, 3084 Motor Ave, Los Angeles, Calif.
Church of England Television Society, 511 Kent St, Sydney, Australia
Cinema-Vue Corp, 245 West 55th St, New York, NY 10019
Cinepix Inc, 5000 Wellington St, Montreal 19, Quebec, Canada
Colorama Features Inc, 10 East 49th St, New York, NY 10017
Commonwealth Film & TV Inc, 723 Seventh Ave, New York, NY 10019
Continental Telefilm Agency (C.T.A.), 14 Rue Victor Greyson, Brussels 5, Belgium
Tom Corradine & Associates, 1404 N. Van Ness Ave, Los Angeles, Calif.
Bing Crosby Productions Inc, 780 N. Gower, Hollywood, Calif. 90038

Desilu Sales Inc, 780 N. Gower, Hollywood, Calif. 90038
Branches: 905 Woodshire Lane, St. Louis, Miss. 63141
300 Spalding Dr, N.E. Atlanta, Georgia
25 Berkeley House, Hay Hill, London W.1, England
Penthouse 10, Village on the Green, 55 Maitland St, Toronto, Ont, Canada
GPO Box 4272, 112a King St, Sydney, N.S.W, Australia
Walt Disney Productions, 500 S. Buena Vista, Burbank, Calif.
Dola Films Ltd, 137 Wellington St. West, Toronto, Canada
Dynamic Films Inc, 405 Park Ave, New York, NY 10022

Embassy Pictures Corp, 1301 Ave. of the Americas, New York, NY, 10019
Branch: 8831 Sunset Blvd, Suite 301, Los Angeles, Calif.
EUE/Screen Gems, Comm. & Industrial Division, 513 W. 54th St, New York, NY 10019

Don Fedderson Productions, 4024 Radford St, Studio City, Calif.
Film Art Television Pictures, 21 Dondas Square, Toronto, Canada
Flamingo Telefilm Sales Inc, 529 Fifth Ave, New York, NY 10017
Fleetwood Films Inc, 10 Fiske Place, Mt. Vernon, New York
Four Star Television, 4030 Radford Ave, No. Hollywood, Calif.
Franklin Television Productions, 1454 Peerless Place, Los Angeles 35, Calif.
Fremantle International Inc, 366 Madison Ave, New York, NY 10017
Branches: Empire House, 119 Regent St, London W.1, England
257 Jarvi St, Toronto, Ont, Canada
Via Monte Giordano 36, Rome, Italy
1396 St. Catherine St, Montreal, Quebec, Canada
Alderson Bldg, St. Leonards, N.S.W, Australia

General Artists Corp, 600 Madison Ave, New York, NY 10022
Mitchell-Gertz Agency, 338 North Rodeo Dr, Beverly Hills, Calif.
Goodson-Todman Productions, 375 Park Ave, New York, NY 10022
Grampian Television Ltd, Nuffield House, 41 Piccadilly, London W.1, England
Granada TV Overseas, 36 Golden Square, London W.1, England
Greatest Fights of the Century Inc, 9 East 40th St, New York, NY 10016

Harriscope Broadc. Corp, 291 S. La Cienega Blvd, Beverly Hills, Calif.
Hofberg Productions Inc, 321 West 44th St, New York, NY 10036
Hollywood Television Service, 8530 Wilshire Blvd, Beverly Hills, Calif. 90211
Branches: 660 Madison Ave, New York, NY
37 Baseler Str, Frankfurt, Germany
277 Victoria St, Toronto, Ont, Canada
Sovereign Film Dist. Ltd, 3811 Edmonton Trail, Calgary, Alberta, Canada
1200 St. Alexander St, Montreal, Quebec, Canada
133 Princess St, St. John, N.B, Canada
2178 W. 12th St, Vancouver, B.C, Canada
281 Colony St, Winnipeg, Manitoba, Canada

Ideal Pictures Inc, 1010 Church St, Evanston, Ill. 60201
Branches: 1619 N. Cherokee, Hollywood, Calif. 90028
321 W. 44th St, New York, NY 10036
Intertel International Television Development Corp, 527 Madison Ave, New York, NY
Jayark Films Corp, 733 Third Ave, New York, NY 10017
King Features TV, 235 E. 45th St, New York, NY 10017
Branch: 10850 Riverside Dr, North Hollywood, Calif.

MCA-TV, 445 Park Ave, New York, NY 10022
Branches: U.C. Studios, 100 Universal City Plaza, Universal City, Calif.
139 Piccadilly, London W.1, England
33 Ave. Champs Elysees, Paris, France
151 Bloor St. West, Toronto 5, Ont, Canada
9 Via Tevere, Rome, Italy
Koeniginstr. 29, 8 Munich 22, Germany
Hamburg 70, Mexico 6, D.F.
Hotel New Japan, Suite 881, 29 Nagata-cho, 2-chome, Chiyoda-ku, Tokyo, Japan
Universal House, Poplar & Pelican St, Sydney, Australia
1434 West St. Catherin St, Montreal 25, Canada
Colisee Bldg, Hamra St, Beirut, Lebanon
Medallion Pictures Corp, 200 West 57th St, New York 10019
Branch: 444 Madison Ave, New York, NY 10022
MGM-TV, 1350 Ave. of the Americas, New York, NY 10019

Branches: MGM Studios, Culver City, Calif.
340 Victoria St, Toronto, Canada
Modern Sound Pictures Inc, 1410 Howard St, Omaha 2, Neb.

NBC International, 30 Rockefeller Plaza, New York, NY 10020
Branches: NBC International (Gr. Britain) Ltd, 36 Berkeley Square, London W.1, England
NBC (Canada) Ltd, 500 University Ave, Toronto 2
NBC International De Mexico, S.A, Apartado, Postal 24313, Mexico City, Mexico
NBC International Australia Pty Ltd, 251 Elisabeth St, Sydney, N.S.W, Australia
NBC Television Network, RCA Bldg. Radio City, New York, NY 10020
Branch: 300 West Alameda, Burbank, Calif.
National Film Board, 3255 Cote de Liesse Rd, Montreal, Canada
National Film Board of Canada, 680 Fifth Ave, Suite 819, New York, NY 10019
National Telefilm Associates Inc, 8530 Wilshire Blvd, Beverly Hills, Calif.
Branches: 750 Third Ave, New York, NY
Eagle House, 109 Jermyn St, London S.W.1, England
175 Bloor St. E, Toronto 5, Canada
Weteringschans 245, Amsterdam, Holland
6 Frankfurt/Main, Westend Str. 89, Germany
Princesa 10, Madrid, Spain
3-5 Chome, Ginza, Tokyo, Japan
No. 4 Penang Rd, P.O. Box 1356, Singapore 9
900 Mahachai Rd, Bangkok, Thailand
Callao 1370 p.b. Buenos Aires, Argentina
North American Broadc. Corp, Jackson Bldg, 1929 Irving St, San Francisco, Calif. 94122
Official Films Inc, 724 Fifth Ave, New York, NY

Prince TV Films Inc, 120 West 57th St, New York, NY 10019
Princeton Film Center Inc, P.O. Box 431 Mt. Lucas Rd, Princeton, NJ
Branch: 1456 N. Bronson Ave, Hollywood, Calif.

Radio and TV Packagers Inc, 11 East 40th St, New York, NY 10016
RCA Recorded Program Sees, 155 E. 24th St, New York, NY 10010
Walter Reade Organization Inc, 241 E. 34th St, New York, NY
Rediffusion TV Ltd, TV House, Kingsway, London W.C.2, England

Stuart Reynolds Productions, 9465 Wilshire Blvd, Beverly Hills, Calif. 90212
Riviera Productions, 6610 Selma Ave, Hollywood 28, Calif.
Peter M. Robeck & Co. Inc, 230 Park Ave, New York, NY 10017
Walther Schwimmer Inc, 410 N. Michigan Ave, Chicago, Ill
Branch: 112 Central Park South, New York, NY
Scottish TV Ltd, Theatre Royal, Glasgow, Scotland
Screen Gems Inc, 711 Fifth Ave, New York, NY 10022
Branches: 72 Charlton St, Toronto, Ont, Canada
1245 Sherbroke Street West, Montreal 25, Quebec, Canada
535 W. Georgia St, Vancouver 3, Canada
Plaza de la República 43, Mexico 1, D.F.
P.O. Box 422, San Juan, Puerto Rico 09902
Avda, Callao 449-3er Piso, Buenos Aires, Argentina
Rus Santa Isabel 160-7, São Paulo, Brazil
169 Regent St, London W.1, England
5, Ave. Velasquez, Paris 8, France
Ickstattstr. 1, Munich, Germany
26 College St, Sydney, Australia
17-20, 6-chome Shimbashi, Minato-ku, Tokyo, Japan
P.O. Box 3373, Ave. Rizal, Manila, Philippine Isl.
708 Mahachai Rd, Bangkok, Thailand

Show Corp. of America, International Bldg, 45 Rockefeller Plaza, New York, NY 10020
Southern TV Ltd, Glen House, Stag Place, London S.W.1, England
Sovereign Films Ltd, 277 Victoria St, Toronto, Canada
Sportlite Films, 20 North Wacker Dr, Chicago, Ill. 60606
Sterling Films Ltd, King Edward Hotel, Toronto, Canada
Mike Stokey Enterprises Inc, 1475 Deheny Dr, Hollywood, Calif. 90060
Storer Programs Inc, 338 S. Western Ave, Los Angeles, Calif. 90005

T.W.W. Ltd Ltd, 207 Sloane St, London S.W.1, England
Teledynamics Corp, 729 7th Ave, New York, NY 10019
Tele-Features Inc, 516 Fifth Ave, New York, NY 10036
Time-Life Broadc. Inc, Time & Life Bldg, New York, NY 10020
Trans-Lux TV Corp, 625 Madison Ave, New York, NY 10022
Trans-Lux TV International Corp, Utoquai 29, Zürich 8, Switzerland
Transtel G.m.b.H, P.O. Box 1607, 5 Cologne 1, Germany
Turn of the Century Fights Inc, 9 E. 40th St, New York, 10016
Twentieth Century-Fox TV Inc, 444 W. 56th St, New York, 10019
Branches: P.O. Box 900, Beverly Hills, California
25 Terrace Dr, N.E. Apt. 5, Atlanta, Georgia
550 W. Jackson Blvd, Chicago, Ill.
110 Bond St, Toronto 2, Ont, Canada
31-32 Soho Square, London W.1, England
12 Rue de la Croix D'Or, Geneva, Switzerland
33 Champs Elyses, Paris 8e, France
P.O. Box 373, Mexico 1, D.F.
Box 1790 Moadie Bldg, Monot St, Beirut, Lebanon
Karolinenplatz No. 6, Munich, Germany
Box 521, Tokyo Central, Japan
43-51 Brisbane St, Sydney, Australia
11 Sarayet el Ekbekieh, Cairo, Egypt
Tyne Tees TV Ltd, 1 Great Cumberland Place, London W.1, England

Ulster TV Ltd, Hanover Square, London W.1, England
UN TV, United Nations, New York, NY
United Artists Associated Inc, 555 Madison Ave, New York, NY 10022
Branches: 520 N. Michigan Ave, Chicago, Ill. 60611
15130 Ventura Blvd, Sherman Oaks, Calif. 91403
922 Monrovia, Shreveport, Louisiana 71106
2 Carlton St, Toronto 2, Ont. Canada
United Artists TV Inc, 729 7th Ave, New York, NY 10019
Branches: 9229 Sunset Blvd, Los Angeles, Calif.
United Artists TV of Canada, Carlton Towers, Toronto 2, Ont, Canada
United Press International, 220 E. 42nd St, New York, NY 10017
Branches: 6520 Selma Ave, Los Angeles, Calif.
575 University St, Montreal, Quebec, Canada
8 Bouverie St, London E.C.4, England
New Mainichi Bldg, Tokyo, Japan
Avenida Belgrano 271, Buenos Aires, Argentina
Van Coevering Outdoor Productions, 20 North Wacker Dr, Chicago, Ill. 60606

Warner Bros. TV Div, 666 Fifth Ave, New York, NY 10019
Warner Bros, Seven Arts Inc, 200 Park Ave, New York, NY 10017
Branches: 3562 Royal Wood Dr, Sherman Oaks, Calif.
11 Adelaide Street W, Toronto, Ont, Canada
Seven Arts House, 24 Berkeley Square, London W.1, England
WBC Productions Inc, 240 West 44th St, New York, NY
WCD Inc, 1600 Broadway, New York, NY 10019
Westward TV Ltd, 4-7 Woodstock St, London W.1, England
Winik Films Corp, 1501 Broadway, New York, NY
Wolper Productions Inc, 8544 Sunset Blvd, Los Angeles, Calif.
Wolper TV Sales Inc, 485 Lexington Ave, New York, NY 10017
Wrather Corp, 270 N. Cannon Dr, Beverly Hills, Calif.

DX Editor, Trans World Radio

A. Riewesel, Swedish DX-Editor Deutschlandfunk.

TV PRODUCTION COMPANIES

With the increasing internationalisation of the Television industry and the development of world wide trade in TV productions, World Radio TV Handbook introduces for the first time in this edition a world listing of TV production companies.

For this inaugural listing, details of the companies have been kept to a minimum with only the address indicated. In some cases the letters C or F have been added to indicate a company specialising in commercial advertising productions for television (C) or feature productions (F).

TV production companies requiring a fuller entry in next year's edition of World Radio TV Handbook are invited to write to the Editor enclosing the additional information.

EUROPE

Austria

Batavia Film GmbH, Mariahilferstr, 47/III, 1060 Vienna.
Belvedere Film (Marischka GmbH), 1030 Vienna, Dampfschiffstr. 12.
Cine-Fox (Fuchs/F. Wittmann), 1050 Vienna, Castelligasse 19.
Duerer Filmproduktion GmbH, 1060 Vienna, Duerergasse 14-16.
FBN-Film: 1060 Vienna, Mollardgasse 34; 6850 Dornbirn/Vorarlberg.
Leo-Film (Pohorely), 1220 Vienna, Siebenbuergerstr. 4/23/6.
Minke-Film KG, 1070 Vienna, Kaiserstr. 12.
Ing. Walter A. Nowak, 1130 Vienna, Steinhardtgasse 3.
Fritz Olesko Film, 1180 Vienna, Messerschmidtgasse 3.
Oesterreichische Tele-Film AG: 1130 Vienna, Lainzerstr. 66. 1070 Vienna, Neubaugasse 21/Stiege 2.
Pauli Film (Paul Obczovsky & Co. KG), 1180 Vienna, Messerschmidtgasse 41-43.
Dr. Heinz Scheiderbauer KG, 1170 Vienna, Dornbacherstr. 88.
Schoenbrunn Film (Ernst Mueller), 1070 Vienna, Neubaugasse 1.
Claus Scholz Film, 1030 Vienna, Sechskruegelgasse 2.
Telecolor Film (Herbert Kollmann), 1010 Vienna, Strauchgasse 1.
Traum & Maier: 1030 Vienna, Dapontegasse 12; 1020 Vienna, Stuwerstr. 34-36.
Truby Film, 1120 Vienna, Ulmenhof 23/3.
TV Studio, 1190 Vienna, Doeblinger Hauptstr. 74.
Video-Film (Mathias Praml), 1010 Vienna, Am Graben 28.
MDS Film (Helmut Pfandler), 1030 Vienna, Goellnergasse 8-10.
Westfilm, 1040 Vienna, Grosse Neugasse 8.
Wiener City Film (Karl Sztollar-Alois Kubesch) 1120 Vienna, Rosenhuegelstr 12.

Belgium

Belgique Cine S.A. 9 Place de Louvain, Brussels.
Belvision, 13-17 Ave. P. H. Spaak, Brussels 7.
Cineurop, Tijl Uylenspiegellaan 63, Antwerp.
Gusst Geens, Hovensesteenweg 100, Boechout, Antwerp.
Studio Laurcys, 's Landsroem laan 83, Brussels 8.
Studio Mathonet, Hof ten Berglaan 221, Brussels 15.
Dick Reusens, Steentjeslaan 24, Kontich.
Walter Smets, Schockaertstraat 71, St. Pieters Leeuw, Brussels.
Somofilm, E. Maxlaan 71, Brussels 4.
Universal Studio, Tervuren Steenweg 190, Waterloo.

Czechoslovakia

Ceskoslovensky Filmexport, V. Namesti 28, Praha 1.

Denmark

Asa Film, Asavenget, Lyngby. (F)
Laura Reklame & Marketing, Vesterbrogade 6d, Copenhagen.

Finland

Erva-Latvala, Aleksanterinkatu 19, Helsinki 10 (C).
Fennada-Film, Kaisaniemenkatu 1B, Helsinki 10 (CF)
Filmi-Jatta, Fursimiehenkatu 26, Helsinki 15 (CF).
Filmitalo, Neitsytpolku 1B, Helsinki 14 (CF).
Ilmo, Lonnrothinkatu 13, Helsinki 10 (C).
Liikemainonta, Keskuskatu 28, Helsinki 10 (C).
Mainos-TV-Reklam, Pasila, Helsinki 101 (CF).
Mainosyhtyma, Eerikinkatu 28, Helsinki 10 (C).
Markinointi-Viherjuuri, Bulevardi 6a, Helsinki 10 (C).
Sceneria, Fabianinkatu 13, Helsinki 10 (CF).
Sektor-Film, Tarkkampujankatu 3b, Helsinki 10 (CF).
Stemma-Film, Mannikkotie 10, Helsinki 63 (CF).
Taucher, Salumoninkatu 17a, Helsinki 10 (C).
Valotorni, Simonkatu 12A, Helsinki 10 (C).
Veikko Laihanen, Kalevankatu 13A, Helsinki 10 (CF).
Yleisradio TV 1, Pasila, Helsinki 101 (CF).

France

Actoria, 116 Champs-Elysees, Paris 8.
Agence de Reportages Televises (RTV), 32 rue des Blancs-Manteaux, Paris 4 (F).
Agence Française de Television, 12 rue Gaillon, Paris 2.
Ajax Film, 61 route de Brie, Brunoy, Seine et Oise.
APEC, 66 rue Mouffetard, Paris 5.
Artistes Associes, 25 rue d'Astorg, Paris 8 (F).
Audio-Visuel, 4 Square Gabriel Faure, Paris 17.
Bartoli Teleproductions, 15 Ave. Montaigne, Paris 8.
Chaumaine Production, 55 bis rue de Ponthieu, Paris 8.
Cineastes Associes, 25 Chemin de Presles, Saint Maurice, Seine (F).
Cineson Film, 4 rue de Constantine, 06 Cannes.
Cine-Tele Realisation, 27 rue Victor Hugo, Courbevoie (CF).
Columbia, 22 rue Toryon, Paris 17 (F).
Coty & Cie, 11 rue du Colisee, Paris 8.
Crecy Films, 101 rue St-Dominique, Paris 7.
C.L.T.U, 19 rue Marius Francy, St. Cloud.
C.O.F.E.R.C, La Fauconnerie a Montainville.

France

Comete (La), 16 rue Delbordere, Neuilly-sur-Seine.
Delpire Productions, 278 Blvd. Raspail, Paris 14.
Dovidis, 33 Champs-Elysees, Paris 8.
Duvaleix, 68 Ave. Jean-Baptiste Clement, Boulogne.
L'Eolienne (Editions de), 14 Place Dauphine, Paris 1.
Europe No. 1 (Dept. TV), 26 bis rue Francois-Premier, Paris 8.
Franco London, 114 Champs-Elysees, Paris 8.
Films de la Maitrise, 6 rue E. Verhaeren, St. Cloud.
Films de Trigone, 50 rue de Rivoli, Paris 1.
Gaumont, 3 rue Caulaincourt, Paris 18.
Jean Image, 27 rue des Petits Champs, Paris 2.
Images et Publicite, 2 rue du Colonel Driant, Paris 1.
Lumi Films, 13 rue de Paris, Boulogne.
Lions Films, 2 rue Henri Monnier, Paris 9.
Madelaine Films, 9 Square Petrarque, Passy.
Maintenon Films, 21 rue des Acacias, Paris 16.
M.G.M, 37 rue Condorcet, Paris 18.
Mars International Productions, 10 rue Jean-Mermoz, Paris 7.
Jean Mineur International, 79 Champs-Elysees, Paris 8.
Mondial TV, 10 rue Jean Mermoz, Paris 7.
Neyrac Films, 133 rue du Theatre, Paris 15 (F).
Paris Cite Production, 13 rue de Paris, Boulogne.
Paris New York Production, 116 bis Champs-Elysees, Paris 8.
Paris Television, 12 rue du Fief, Boulogne.
Pathe, 6 rue Francoeur, Paris 18.
Pathe-Marconi, 18 rue Lord Byron, Paris 8.
Philips Television, 53 Ave. Franklin Roosevelt, Paris 8.
Pilote Publicite, 27 rue Vernet, Paris 8.
Poste Parisien, 116 bis Champs-Elysees, Paris 8.
Pierre Remont (Les Films), 35 rue Washington, Paris 8.
Screen-Gems Columbia, 20 rue Troyon, Paris 17.
Sigle Productions, 15 Blvd. des Invalides, Paris 7.
Telefilm, 50 Quai du Point de Jour, Boulogne.
Teleart, 116 bis Champs-Elysees, Paris 8.
Tele France Films, 11 rue Marius Franay, St. Cloud.
T.V. Cinema, 68 rue Pierre Charron, Paris 8.
Tele Hachette, 23 Blvd. St. Michel, Paris 6.
Tipi Film, 27 Blvd. Raspail, Paris.

Germany (Federal Republic)

Aalto Films, 2 Hamburg 70, Claudiusstr. 82 (F).
Aar-Film GmbH, 1 Berlin 39, Kyllmannstr. 14 (F).
Accord-Film GmbH: 1 Berlin 42, Oberlandstr. 26-35, 8 Munich 82, In der Heuluss 28 (F).
Allegemeine Internationale Film und Fotoproduktion, 51 Aachen, Peterstr. 56 (F).
Alpha-Fernsehproduktion GmbH, 8 Munich 19, Jagdstr. 5 (F).
Atelier H. Koch KG, 28 Bremen, Richard Wagner Str. 9.
ATF Television-Film, 1 Berlin 20, Charlottenburger Ch. 51-55 (F).
Auftragsfilm GmbH, 43 Essen-Bredeney, Postfach 2 (C)
Aurora Television Produktions GmbH & Co. KG, 2 Hamburg 70, Tonndorfer Hauptstr. 90 (F).
A.W.-Film Herbert Lander, 1 Berlin 31, Prinzregentenstr. 85 (F).
Bavaria Atelier GmbH, 8 Munich 9, Bavariafilmplatz 7 (F).
Bertelsmann Fernseh-Produktion, 1 Berlin 42, Viktoriastr. 13-18 (F).
Beta Film GmbH, 8 Munich 15, Schwanthaler Str. 2 (F).
Bibo Film KG, 6220 Rudesheim a. Rhein, Hugo-Asback Str. 54 (FC).
Bonin-Film, 8 Munich 5, Aventinstr. 4-6 (F).
Caemmerer, 8 Munich 23, Leopoldstr. 18 (F).
Carini Werbung, 2 Hamburg 1, Steindamm 103 (C).
CEHA-Film und Fernsehproduktion GmbH, 8 Munich 23, Bonnerstr. 26c (F).
Chamier Film KG, 1 Berlin 19, Havelchaussee 56 (F).
Cinecontact Film GmbH, 1 Berlin 15, Kurfuerstendamm 11 (C).
Cine Document Film (Christian Doermer), 8 Munich 13, Tuerkenstr. 80 (F).
Cinetel Film und Fernsehproduktion GmbH, 1 Berlin 31, Joachim-Friedrich Str. 3 (F).
Citron T.V. u. Film-Produktion, 2 Hamburg 36, Warburgstr. 10 (F).
Commercial Film GmbH & Co. KG, Frankfurt-Eschersheim, Alt Preungesheim 2 (C).
Constanze Fernsehproduktion GmbH, 2 Hamburg 1, Burchardstr. 14 (F).
DCF-Film, 8 Munich 90, Harthauserstr. 70 (C).
Deropa Film u. Fernseh GmbH, 799 Friedrichshafen/B, Albrechtstr. 39 (F).
Deutsche Dokumentarfilm Gesellschaft, Heinrich Klemme & Co, 2 Hamburg 36, Postfach 106 (C).
Deutsche Industrie und Dokumentarfilm GmbH, 4 Duesseldorf-Ok, Kaiser-Friedrich-Ring 40 (C).
Deutsche Reportagefilm GmbH, 548 Remagen, Hause Calmuth (F).
Deutscher Kulturfilm Koerber KG, 2 Hamburg-Ohlstedt, Sthamerstr. 60 (F).
Dokumentar-u. Color-Film, H. Neubert KG (DCF), 8 Munich 27, Moehlstr. 9 (C).
DOMO-Film GmbH & Co. für Industriefilme KG, 8 Munich 13, Tuerkenstr. 91 (C).
Dreyer, Obering, Dietrich W. (Kultur u. Werbefilme), 28 Bremen, Hollerallee 71 (CF).
Durnick, Manfred, Film und Fernsehproduktion, 1 Berlin 30, Nollendorfplatz 3-4 (F).
Don D'Waal Film und Fernsehproduktion, 2 Hamburg 13, Postfach 2517.
Eikon Gesellschaft für Fernsehen u. Film mbH, 7 Stuttgart 1, Diemershaldenstr. 45 (F).
Elan-Film Gierke & Co. 8 Munich 12, Ruedesheimer Str. 11 (F).

Germany

Europublic GmbH, 2 Hamburg 13, Harvestehuder Weg 36 (C).
Fernseh Allianz GmbH, 2 Hamburg 70, Tonndorfer Hauptstr. 90 (F).
Film und Fernsehproduktion C. J. Muras, 5 Cologne, Mittelstr. 52-54 (CF).
Filmproduktion und Lehrfilm Institut Richard Scheinplug, 2 Hamburg 62, Ahlfeld 51 (F).
Film in Wirtschaft und Television, 2 Hamburg 73, Rahlstedterstr. 112 (C).
Filzinger Film Produktion, 6083 Walldorf/b. Frankfurt/M, Jordan Allee 33 (C).
Forum Film, 7 Stuttgart 1, Gaisburgstr. 12b (F).
Franck Film Produktion, 4043 Angermund b. Duesseldorf, Karlkumerstr. 80 (C).
F.W.F. Film Fritz Wagner, 1 Berlin 31, Halenseestr. 8 (F).
Gesellschaft für bildende Filme, 8 Munich 90, Lindenstr. 9 (F).
Gong-Film, Modo Menck, 2 Hamburg 22, Hofweg 53 (F).
Grueger Produktion, 1 Berlin 41, Steinstr. 19 (CF).
Hamburgische Film u. Fernsehproduktion GmbH, 2 Hamburg 70, Tonndorfer Hauptstr (F).
Hardenberg & Co, 2 Hamburg 22, Adolfstr. 53 (C).
Hart-Film, 2 Hamburg 52, Baron Voght Str. 96 (C).
HGF-Filmproduktion, 62 Wiesbaden, Franz-Abt-Str. 12 (F).
Horst Film GmbH & Co. KG: 8 Munich 2, Rindermarkt 2; 1 Berlin 30, Nuernbergerstr. 38 (CF).
IDF, Industrie-Dokumentar-Fernsehfilm Produktion, 6229 Schlangenbad, Haus am Hang (C).
Ifage Filmproduktion, Internationale Fernseh-Agentur GmbH, 62 Wiesbaden, Unter den Eichen (F).
IFI Industrie u. Fernsehfilm Hans Hoenicka, 8 Munich 90, Bavariafilmplatz 7 (C).
IFT/TV GmbH, International Film Features, 69 Heidelberg-Handschuhsheim, Am Hahnenberg 15 (F).
I & D Film, Industrie u. Dokumentar Film GmbH & Co. KG, 1 Berlin 45, Ostpreussendamn 137 (CF).
Insel-Film GmbH & Co, 8 Munich 15, Sonnenstr. 2 (C).
International Germania Film GmbH, 5 Cologne/Rh, Unter Saschenhausen 33 (F).
Internationale Televisions GmbH, Frankfurt/M. Gartenstr. 54 (CF)
Intertel Television GmbH, 8 Munich 2, Burgstr. 7 (F).
Inter-West Film GmbH, 1 Berlin 46, Muehlenstr. 52 (F).
Karat-Film Hans Kuehle, 8022 Gruenwald b.Munich, Ludwig-Thomastr. 8c (CF).
Kaskeline-Film, Wolfgang Kaskeline: 1 Berlin 15, Knesebeckstr. 50; 532 Bad Godesberg, Berliner Ring 35 (C).
Kauka GmbH & Co, 8 Munich 90, Gabriel-von-Seidelstr. 41 (C).
Kirchoff, Erwin KG, Industrie u. Werbefilme, 2 Hamburg 63, Josthoehe 116 (C).
Knoop Filmproduktion, 2 Hamburg 13, Mittelweg 144 (CF).
Koeroesi & Bethke Dokumentarfilm-Produktion, 2 Hamburg 22, Hofweg 9 (F).
Krause Filmproduktion, 2 Hamburg 61, Koenig-Heinrich-Weg 218 (C).
Krien-Film, Werner Krien KG, 1 Berlin 37, Rappoltsweilerstr 4 (C).
K.S. Film Produktion, 8919 Utting/Ammersee, Ludwigstr. 48 (C).
Leckebusch Filmstudio, 8 Munich 19, Tizianstr. 16 (CF).
Lexikon-Film u. Television GmbH, 8 Munich 19, Numphenburgerstr. 154 (F).
Magnet Film Produktion GmbH & Co. KG, 1 Berlin 19, Havelchaussee 56 (F).
Maris Film GmbH & Co. KG, 1 Berlin 15, Kurfuerstendamm 54-55 (F).
Marken Film GmbH & Co, 2 Hamburg-Wedel, Schulauer Moorweg 25 (C).
M. Filmproduktion für Industrie und Werbung GmbH & Co. KG, 775 Konstanz, Bodanstr. 19 (C).
Monitor Film und Fernsehproduktion GmbH & Co. KG, 2 Hamburg 13, Frauenthal 10 (F).
Munchen Film und Werbe GmbH, Munich 2, Briennerstr. 10 (CF).
Neue Filmproduktion GmbH & Co. KG, 62 Wiesbaden, Uhlandtr. 4 (C).
Norddeutsche Filmproduktions Gemeinschaft GmbH, 2 Hamburg 70, Tonndorfer Hauptstr. 90 (F).
Nordmark-Film, 23 Kiel, Jaegersberg 5 (CF).
Rhein-Ruhr Film 463 Bochum, Kortumstr. 45 (C).
Rotary Film GmbH, 8 Munich 2, Schuetzenstr. 1 (F).
Sasse Film KG, 8 Munich 13, Isabellastr. 32 (CF).
Sator Film GmbH, 2 Hamburg 1, Grosse Allee 10 (CF).
Schlueter Film Produktion, 1 Berlin 19, Tannenbergallee 3, (C).
Schmid Productions, 8 Munich 19, Kratzerstr. 9 (F).
Schroedter Studio KG, 2 Hamburg 52, Georg-Sonne Str. 98 (F).
Skalden Filmproduktion, 2 Hamburg 73, Delingsdorfer Weg 20 (F).
Sport-Kultur u. Werbefilm Produktion, 8 Munich 2, Pacellistr. 7 (CF).
Strobel-Tichawsky Produktion, 8 Munich 22, Widenmayerstr. 24 (F).
Telecine Filmproduktion GmbH, 8 Munich 23, Kaiserplatz 7 (F).
Telefilm Saar GmbH, 66 Saarbruecken, Schloss Halberg, Postfach 589 (F).
Telepool, Sonnenstr. 21, 8 Munich 15.
Televersal Film. u. Fernsehproduktion GmbH, 2 Hamburg 70, Tanndorfer Hauptstr. 90 (F).
Thurnau-Film Produktion-Synchronisation GmbH, 1 Berlin 15, Brandenburgisch Str. 38 (C).
Trebitsch Produktion GmbH, 2 Hamburg 70, Tonndorfer Hauptstr. 90 (F).
Tremper Filmproduktion GmbH, 1 Berlin 22, Kurpromenade 68 (F).
Trickstudio Rudolf, 8 Munich, Wiltrudenstr. 5 (C).
TV Star Produktions u. Atelier GmbH, 8 Munich 12, Tulbeckstr. 27-29 (F).
TV-Union Fernsehproduktion und Studio GmbH, 1 Berlin 15, Brandenburgische Str. 38 (F).
UFA-Fernsehproduktion, 1 Berlin 42, Viktoriastr. 13-18 (F).
UFA-Werbefilm GmbH: 1 Berlin 42, Oberlandstr. 26-35, 2 Hamburg 20, Alsterkrugchaussee 186; 7 Stuttgart Degerloch, Karl. Pfaff Str. 25 (C).

Germany

UFP Unabhaengige Filmproduktion, 8022 Munich-Geiselgasteig, Bavariafilmplatz 7 (F).
Unda Film, Dr. Walter Koch, 8 Munich 2, Gaiglstr. 25 (F).
VDS Film, Vereinigte Dokumentar u. Spielfilmproduktion, 1 Berlin 31, Paulsborner Str. 18 (F).
Wellnitz Produktion GmbH, 813 Starnberg, Hofbuchetstr. 9 (F).
Windrose-Dymont-Time Film und Fernsehproduktion GmbH: 5 Cologne, Offenbachplatz 1; 2 Hamburg 43, Alter Teichweg 61 (F).
Zenit Film, 1 Berlin 37 (Zehlendorf), Roonstr. 2 (CF).

Holland

N.V. Anglo Dutch Group, W. van Borsselenweg 95, Amstelveen.
Arrow Productions (Holland) N.V, Duivendrechtsekade 83-87, Amsterdam.
Atlas Film, Kloveniersburgwal 87, Amsterdam.
Atzen Brusse Filmproduktie, Van Baerlestraat 88, Amsterdam.
A.V.R.O, Keizergracht 107, Amsterdam.
Carillon Films N.V, Koninginnelaan 45-49, Rijswijk (Z.H.).
Cartouche Filmproduktie N.V, Egelantierstraat 2-6, Amsterdam.
N.V. Cehma, Emmastaat 39, Amsterdam.
M. M. Chanowski Produktions N.V, Prinsengracht 854, Amsterdam.
Colorpress Filmproduktie, Duchattelstraat 9, Amsterdam.
Filmproduktie Maatschappij, "Amsterdam" N.V, Kiefskamp 97, Amsterdam.
N. V. Joop Geesink's Filmproduktie, "Dollywood", H. J. E. Wenckebachweg 169, Amsterdam.
Han Van Gelder Filmproduktie, Duivendrechteekade 83-87, Amsterdam.
W. Gomes, Kerkpad N.Z. 21-23, Soestdijk.
Paul Huf Film Associates N.V, Hazenstraat 4-8, Amsterdam.
Interfilm N.V, Steynlaan 3, Hilversum.
Bob Kommer Studio's C.V, Riouwstraat 71, Amsterdam.
K.R.O, Keizergracht 151, Amsterdam.
N. V. Multifilm, Steynlaan 3, Hilversum.
Mundofilm, Min. Hartsenlaan 4b, Hilversum.
N.C.R.V, Schuttersweg 8, Hilversum.
N. V. Oscar Film, Weesperzijde 111, Amsterdam.
Pam Film N.V, Sloterweg 1212, Amsterdam.
Standaardfilms Produktie, Maatschappij N.V, Keizersgracht 318, Amsterdam.
N.V. "Starfilm", H. J. E. Wenckebachweg 169, Amsterdam.
Telefund Holland, Prinsengracht 739, Amsterdam.
Televisie Realisatie Trebert C.V, Singel 406, Amsterdam.
J. Walter Thompson Co. N.V, Otthe Heldringstraat 5, Amsterdam (C).
N.V. Marten Toonder Film, Kasteel "Nederhorst", Slotlaan 3, Nederhorst den Berg.
Topspot N.V, Duivendrechtsekade 86, Amsterdam.
T.R.O.S, Herengracht 543, Amsterdam.
V.A.R.A, Heuvellan 33, Hilversum.
Walt Verwey Filmproduktie, Jan van Eyckstraat 12, Amsterdam.
Herman Wassenaar Filmproduktie, Johan Braskensiekhof 19, Amsterdam.
V.P.R.O, 's-Gravelandseweg 65, Hilversum.

Hungary

Hungarofilm, Bathory U.10, Budapest.

Ireland

A.C.T. Studios, 26 Upr. Mount St, Dublin 2 (C).
Adsell Limited, 70 Upper Leeson St, Dublin 4 (C).
Arks Limited, 16 Harcourt St, Dublin 2 (C).
Arrow, 31 Merrion Square, Dublin 2 (C).
Brindley Advertising Ltd, Brindley House, 17 Upper Mount St, Dublin 2 (C).
City Publicity, 106 Upper Leeson St, Dublin 4 (C).
Damas Limited, 91 Pembroke Road, Dublin 4 (C).
Ernest Marks Publicity Ltd, 6 Grantham Place, S.C.Rd, Dublin 8 (C).
Fischerkoesen Film Studio, 7 Northumberland Rd, Ballsbridge, Dublin (C).
Grosvenor Publicity Ltd, Grosvenor House, Wellinton Rd, Dublin 4 (C).
Janus Ltd, 53 Parnell Square West, Dublin 1 (C).
Kenny's Advertising Agency Ltd, Killarney House, 84 Lower Baggot St, Dublin 2 (C).
Lynch's Advertising Ltd, 81 Amiens St, Dublin 1 (C).
McConnell's Advertising Sce Ltd, 10 Pearse St, Dublin 2 (C).
McEvoy's Advertising Scs Ltd, Middle Abbey St, Dublin 1 (C).
O'Donnell, Earl and Partners Ltd, Hume House, Dublin 4.
O'Keefes Ltd, 49 Fitzwilliam Square, Dublin 2 (C).
O'Kennedy-Brindley Ltd, 64 Lower Gardiner St, Dublin 1 (C).
Robert Monks, Film Scs, 178 Cypress Grove, Templeogue, Dublin 6 (C).
Peter A. Ovens Ltd, 38 Fitzwilliam Place, Dublin 2 (C).
Padbury Advertising Ltd, 105 Lower Baggot St, Dublin 2.
Silverpine Studios, Bray, Co. Wicklow (F).
Sun Advertising Ltd, 9 Fitzwilliam Square, Dublin 2 (C).
R. Wilson Young, 64 Lower Leeson St, Dublin 2 (C).

Italy

Afra Italiana, Via Lovanio 10, Milan (C).
Arcca Film, C. so Vittorio Emanuele 15, Milan (C).
Arco Film, Dr. Alfredo Bini, Via Paraguay 2,00198 Rome (F).
Art Film, Via Tandardini 57, Milan (C).
B. L. Vision, Dr. Sandro Bolchi, Via del Babuino, 41, 00187 Rome (F).
Bozzetto Bruno, Sig. Bruno Bozzetto, Via Melchiorre Gioia 55, 20124 Milan (C).
Brera Produzione Cinematografica, Sig. Giuseppe Brun, Via Ariosto 10, 20145 Milan (C).
Camera Uno, Via Onorato Vigliani 15, Turin (C).
Cartoons Film, Via Andrea Doria 48b, Milan (C).
C.E.P. (Cine Edizioni Pubblicita'), Dr. Arturo la Pegna, Viale Bruno

Italy

Buozzi 99,00197 Rome (C).
Cine Televisione, Dr. Giuseppe Peserico, Via Moscova 46/9, 20121 Milan (C).
Ciuffini Augusto, Piazza Cinecitta' 30c, Rome (C).
Clodio Cinematografica, Sig. Leonardo Pescarolo jr, Via Trionfale 168, 00136 Rome (F).
Comet Film, Via O. Revel 16, Turin (C).
Corona Cinematografica, Via Alpi 15/D, 00198 Rome (F).
"Cortimetraggi" di Gigi Martello Cine TV, Via Micheli 45,00197 Rome (F).
C.P.V. Italiana, P. za degli affari 3, Milan (C).
Davit Film, Via Boncompagni 2, Turin (C)
De Sanctis Ing. Victor A, Via Carlo Marenco 3, 10126 Turin. (F).
Documento Film, Via di Villa Patrizi 7, 00161 Rome (F).
Edizioni Aurora TV S.r.l, Avv. Vinicio Congiu e Dr. Jacopo Rizza, Viale delle Belle Arti 7,00196 Rome (F).
Fair Film, Dr. Mario Cecchi Gori, Via Barnaba Oriani 16, 00197 Rome (F).
Ferry Mayer, Via Moscova 46/9, 20121 Milan (C).
Film Giada, Via Mercalli, 80, 00197 Rome (F).
Film Iris, Via Roccagiovine 245, 00156 Rome (C).
Film Marcellini, Via Fleming 98, 00191 Rome (F).
Filmart TV Color, Via Tantardini 57, 20136 Milan (C).
Filmstudio, P. za San Salvatore in Lauro 6, 00186 Rome (F).
Fono Roma, Dr. Vincenzo Buffolo e Dr. Giulio Sbarigia, Via Maria Adelaide 7, 00196 Rome (F).
Fulco Film, Via della Frezza 17, 00186 Rome (F).
Gamma Film, Cinelandia, Cologno Monzese, 20093 Milan (C).
General Film, Via Filippo Turati 6, 20121 Milan (C).
Gruppo Ferranti, Via Lisbona 7, 00198 Rome (C).
Dino De Laurentiis Cin. S.p.A, Via Pontina Km. 23,270 00128 Rome (F).
Gtm Film, Via Mussi 5, 20154 Milan (C).
Guicar Film, Via Piero della Francesca 6, 20154 Milan. (C).
Jolly Film, Largo Messico 7, 00198 Rome (F).
Lodolo Film, Lungotevere Flaminio 80, 00196 Rome (C).
Lux Film, Via Po 36, 00198 Rome (F).
Massimo Saraceni Cinematografica, Viale Mazzini 33, 00195 Rome (F).
Nexus Film, Via degli Scipioni 167, 00192 Rome (F).
Orion Film, Via Anzimonti 26, Carate Brianza, 20048 Milan. (C).
Orti Film, Via Orti 19, Milan (C).
Pagot Organizzazione, Corso di Porta Romana 98, 20122 Milan (C).
Panda, Dr. Ermanno Donati e Dr. Luigi Carpentieri, Via Basento 37, 00198 Rome (F).
Paul Film, Via G. Amendola 37, 41100 Modena (C).
PEA (Produzioni Europee Associate), Avv. Alberto Grimaldi, Largo Poncielli 6, 00198 Rome (F).
Prima Film, Via Ariosto 10, Milan (C).
Produzione G. Tapparelli, Corso dei Plebisciti 19, 20129 Milan (C).
Produzioni Mondovisione, Avv. Franco Finzi de Barbora, Via di Montoro 8, 00186 Rome (F).
R.C.T, Via Merlino 8, Sangano, Turin (C).
Recta Film, Via della Ferratella in Laterano 33, Rome (C).
Rizzoli Film, Via Ludovisi 4, 00187 Rome (F).
Romana Film, Via Massaua 6, 00162 Rome (F).
Romor Film, Via San Pietro all 'Orto 17, 20121 Milan (F).
S.I.P.E.C, Centro Cinematografico, Sig. Piero Pompili, Corso Magenta 63, 20123 Milan (F).
Studio A.G, C. so Vittorio Emanuele 12, Turin (C).
Studio D, Sig. Giuseppe dell' Angelo, 33 Corso Sempione, 20145 Milan (F).
Studio Dany, Via Veniero 6, Milan (C).
Studio Franco Dodi, Via Antonelli 49, 00197 Rome (F).
Studio Kappa, Via S. Spirito 14, Firenze (C).
Studio K. Pubblicita' Produzioni Cinetelevisive, Via Montalbano 8, 50135 Firenze (Rovezzano) (C).
Studio Rossi, Via Moscova 38a, 20121 Milan (C).
Telefilm "I Sette Mari", Via Sardegna 29, 00187 Rome (F).
Ultra Film Sicilia Cinematografica, Viale Bruno Buozzi 32, 00197 Rome (F).
Ultravision, Via Leone XIII 21/2, 20145 Milan (C).
Union Film Produzioni Cinetelevisive, Via Moscati 10, 20154 Milan (C).
Vides, Piazza Pitagora 9/a, 00197 Rome (F).
Vimder Film, Via Cesare Boldrini 16, Bologna (C).
Vision Film, Via Colonna 36, Milan (C).

Norway

Norsk Film A/S, Kirkeveien 59, Oslo 3. (F).

Poland

Film Polski, 6-8 Mazowiecka, Warsaw.

Spain

Amoros & Solanes, Ronda Guinardó 46, Barcelona 13 (CF).
Audivision, Paseo de Gracia 97, Barcelona 8 (F).
Cinar-Films, Marques de Sentmenat 22-24, Barcelona 14 (F).
Cindus S.A, Claudio Coello 126, Madrid 6 (CF).
Cinecorto S.A, Av. Generalisimo 30, Madrid 16 (CF).
Cined'or S.L, Diputacion 39, Barcelona 15 (F).
Cine/Spot (Servicios Tecnicos publicitarios) Coslada 19, Madrid 2 (F).
Cinetti, Los Vergos 4, Barcelona 17 (CF).
Coty Iberica, Av. Generalisimo 18, Madrid 16.
Estudios C.S, Independencia 21, Hospitalet de Llobregat, Barcelona (F).
Estudios Lumer, Badajoz 22, Barcelona 5 (CF).
Estudios Moro S.A, Av. America, Madrid 17 (CF).
Studios Pomes, Graywinkel 28, Barcelona (F).
Estudio Proex S.A, Numancia 73, Barcelona 15 (CF).

Spain

Estudios Schommer, Ferraz 12, Madrid 8 (CF).
Estudios Vara S.A, Marques de Monteagudo 16, Madrid 2 (CF).
Iberoamericana de Cinematografia S.A. Pisicofilm,
Estudios Cinematograficos Kine, S.A. Portban 6-18, Barcelona (CF).
P. C. Signo, Av. Mistral 60, Barcelona 15 (CF).
Producciones Cormoran, Tordera 70, Barcelona 12 (F).
Publivision, Almagro 23, Madrid (F).
Publivision, R. de Cataluna 6, Barcelona (F).
Royal Films, Cartellá 77, Barcelona 16 (F).
S. Film Pablo Nuñez S.A, Guzman el Bueno 4, Madrid 15 (CF).
Telecine S.A. Movirama, Via Layetana 171, Barcelona 9 (F).
Te-Si Estudios Cinematograficos S.A, Dante Alighieri 140, Barcelona 16 (F).
Teletecnicine International, Av. José Antonio 464, Barcelona 15 (CF).
World Wide Pictures S.A.E, Marques de Sentmenat 55-59, Barcelona 15 (CF).

Sweden

Europa Film, Kungsgatan 24, Stockholm.
Ake Falk, Karrtorpsvagen 34, Johanneshov, Stockholm.
Janco Filmformedling, Kungsgatan 15, Stockholm.
Nord-Art AB & Co, Filmstaden, Box 232, Solna.
Omega Film, Nybrogatan 12, S-114 39 Stockholm Ö.
Scandinavian TV Enterprises, Vasagatan 16, Stockholm.
S. F. Artfilm AB, Kungsholmstorg 6, S-112-21 Stockholm K.
TRU-Kommitten, Stockholmsvägen 30, Stocksund.

Switzerland

A & B Film AG, Seestr. 131/133, 8800 Thalwil (C).
Cefi TV Film AG, Weinbergstr. 54, 8006 Zurich (C).
Central Film AG, Weinbergstr. 11, 8023 Zurich (C).
Citel Film S.A, rue de Hesse 8, 1200 Geneva (C).
Condor Film AG, Restelbergstr. 107, 8044 Zurich (C).
Coty S.A, 6 rue de la Rotisserie, Geneva.
Henry-Robert Dufour, Ave de Rumine 7, 1000 Lausanne (C).
Fillion & Cuendet, Route d'Oron 14b, 1010 Lausanne (C).
Film-O-Vision, Aarstr. 102, 3011 Berne (C).
Gernhardt Film, Bavaria Film Platz 7, 8022 Gruenwald-Geiselgasteig, Zurich (C).
Gerstner, Gredinger & Kutter AG, Augustinergasse 21, 4000 Basel (C).
Gisler & Gisler, Carmenstr.52, 8030 Zurich (C).
Kern Film AG, Leimenstr. 21, 4000 Basel (C).
Kublin-Rev. Schlumpf & Co, Beethovenstr. 11, 8000 Zurich (C).
Maeder Film, Frobenstr. 66/58, 4000Basel (C).
Fotostudio Jack Malaise, Hegibachstr. 68, 8021 Zurich (C).
Rene Martinet Filmproduktion, Bederstr. 29, 8002 Zurich. (C).
Roger Mayer, Gundeldingerstr. 170, 4000 Basel (C).
Movierecord, Molkenstr. 21, 8004 Zurich (C).
Photographies et Illustrations S.A, Schulhausstr. 55-56, 8002 Zurich (C).
Probst Film Bern, Mittelholzerstr. 6, 3025 Berne (C).
Provira S.A, Via Pioda 12, 6900 Lugano (C).
Reust Film, Feldeggstr. 80, 8008 Zurich (C).
Rincovision AG, 4800 Zofingen (C).
F. G. Rindlisbacher, Filmproduktion, Mittelst. 20, 3000 Berne (C).
Schmidt Productions, Oetenbachgasse 11, 8001 Zurich.
Peter Sollberger, Kesslergasse 33, 3000 Berne (C).
Standard Film AG, Weinbergstr. 11, 8023 Zurich (C).
Studio AG, Dolderstr. 5, 8032 Zurich (C).
Studio Liechti, Rue Blancalet 21, 1200 Geneva (C).
Studio Mile, Chemin de Mornex 38, 1000 Lausanne (C).
Telefilm Saar GmbH, Nestor Amor, 4000 Basel 3 (C).
Televico AG, Toberhofstr. 344, Gockhausen, 8044 Zurich (C).
Telewerba AG, Dolderstr. 5, 8032 Zurich (C).
Trans Lux Television International Corp, Utoquai 29, 8008 Zurich.
Turnus Film AG, Gutenswil, 8605 Zurich (C).
Vision International, Manessestr. 92, 8045 Zurich (C).
Michael Wolgensinger, Zeltweg 62, 8032 Zurich (C).
Charles Zbinden, Effingerstr. 55, 3000 Berne (C).
Zurich Film AG, Kirchanackerweg 24, 8050 Zurich (C).

United Kingdom

Advision Ltd, 83 New Bond St, London W 1 (F).
Antony Beauchamp (London) Ltd, 13 Dover St, London W 1 (F).
Anvil Film & Recording Group Ltd, 33 Bruton St, London W 1 (F).
Associated British-Pathe Ltd, Film House, Wardour St, London W 1 (C).
BBC Television Enterprises, Villiers House, Haven Green, London W 5.
British Films Ltd, 171 Shaftesbury Avenue, London W C 2 (C).
Bryanston Films Ltd, Television House, Kingsway, London W.C.2 (F).
Basic Films Ltd, 49 Old Deer Park Gardens, Richmond, Surrey (CF).
Campbell Films Ltd, 9-11 Broadwick St, London W 1 (CF).
Cavalcade Films Ltd, Haymarket House, 28 Haymarket, London S.W.1 (CF).
CBS News, 26 Hallam St, London W.1 (F).
Chiltern Films, 29-33 Lower Kings Road, Berkhamsted, Herts (CF).
Commercial Motion Pictures Ltd, Vision House, Russel Gardens, London N.W.11.
Compass Television Ltd, 87 Wardour St, London W.1.
Creative Film Makers Ltd, Spectrum House, Alderton Crescent, London N.W.4 (CF).
Derrick Knight and Partners Ltd, 8-12 Broadwick St, London W.1 (F).
Derick Williams Productions Ltd, Charter House, 52 Gloucester Place, London W.1 (CF).
Dorland Advertising Ltd, Haymarket House, 28 Haymarket, London W.1 (C).
Donald Rawlings Ltd, Halliford Studios, Manygate Lane, Shepperton, Middlesex (CF).
Drummer Films Ltd, Rank Laboratories, Denham, Bucks (F).

United Kingdom

Educational and Television Films Ltd, 164 Shaftesbury Ave, London W.C.2 (F).
Empire Film Productions, 1 Wardour St, London W.1 (F).
Film City Productions Ltd, 73 Newman St, London W.1 (CF).
Film Contracts Ltd, 1 Soho Square, London W.1.
Film Partnership Ltd, 14 King St, Richmond, Surrey (F).
The Film Producers Guild Ltd, Guild House, Upper St. Martin's Lane, London W.C.2 (F).
Frank Hendrix Productions Ltd, 154 Newington Butts, London S.E.11.
G.H.W. Productions Ltd, The Gate Recording Theatre, Maxwell Rd, Elstree Way, Boreham Wood, Herts.
Global Films Ltd, 4 Leicester St, Leicester Square, London W.1 (CF).
Graham and Gillies Ltd, 37 Golden Square, London W.1 (C).
Guild Television Service Ltd, 28 Maiden Lane, London W.C.2 (C).
Halas and Batchelor Cartoon Films Ltd, 3-7 Kean St, Aldwych, London W.C.2 (CF).
Howard Connel Associates, 14f Hyde Park Mansions, London N.W.1 (C).
James Garrett & Partners, 30 New Bond St, London W.1.
John Abbott Productions, 73 Anglesmede Crescent, George V Av, Pinner, Middlesex (CF).
Macqueen Film Organisation Ltd, West St, Bromley, Kent (CF).
National Interest Picture Productions Ltd, 21 Soho Square, London W.1.
National Screen Service Ltd, Mascreno House, 27 Soho Square, London W.1 (C).
Pageant Productions, 9 Union Court, Old Broad St, London E.C.2 (CF).
Pearl & Dean (International) Ltd, 33 Dover St, London W.1 (C).
Publicity Films Ltd, Guild House, Upper St. Martin's Lane, London W.C.2 (C).
S. Presbury & Co. Ltd, Gloucester House, 19 Charing Cross Rd, London W.C.2 (C).
Random Film Productions Ltd, 1 Rectory Lane, Edgware, Middlesex (F).
The Rank Organisation Advertising Films Division, 11 Hill St, London W.1 (C).
Rayant Pictures Ltd, 11 St. James's Place, London S.W.1.
Rayant Television Ltd, 11 St. James's Place, London S.W.1 (C).
Realist Film Unit, 83 Wardour St, London W.1 (F).
Relph-Dearden Productions Ltd, Pinewood Studios, Iver, Bucks (C).
Richard Williams Animated Film Ltd, 77 Dean St, London W.1.
Roxy Films (BG) Ltd, 3 Albemarle St, Piccadilly, London W.1 (CF).
Seven Seas Films Ltd, 83 Duke St, Grosvenor Square, London W.1 (CF).
Stanley Schofield Productions Ltd, 6-8 Old Bond St, London W.1 (F).
625 Film Productions Ltd, 145 Wardour St, London W.1.
Science Films Ltd, The Studios, College Slip, Bromley, Kent (F).
Stewart Films Ltd, Orchard Rd, Malvern, Worcestershire (F).
Stewart Hardy Films Ltd, Imperial Studios, Boreham Wood, Herts (CF).
Swift Film Productions, 1 Wood Rd, Wimbledon S.W.20 (CF).
Tempean Films Ltd, A.B.P. Elstree Studios, Boreham Wood, Herts (F).
Tunnel Film Productions Ltd, 74-76 Old Compton St, London W.1.
Twentieth Century Publicity Service Ltd, 61 Manchester Royal Exchange, Manchester 2, Lancs.
The Voice of London Ltd, 245 Marylebone Rd, London N.W.1 (CF).
Warwick Television Productions Ltd, 3 Audley Square, London W.1.
West of England Film Studios Ltd, Southey House, Wine St, Bristol 1 (CF).
World Wide Picture Ltd, 34 Cursitor St, London E.C.4 (F).
World Wide Television Film Service Ltd, 34 Cursitor St, London E.C.4 (C).
Wynne Film Productions Ltd, Wynne House, 38-42 Whitfield St, London W.1 (CF).
Zodiac Productions Ltd, 9 Cavendish Square, London W.1 (F).

ASIA

Israel

Geva Films Ltd, 65 Weizman St, Givata'im.
Israel-Canada TV Studio, Herzlia.
Television of Israel, TV House, Rommemma, Jerusalem.
Yahel Films Ltd, 57 Bar Kochba St, Tel Aviv.

Japan

Ad Video Japan, 1-7 Shinjuku, Tokyo.
Aoi Promotions Co, Hoshino Bldg, Yaesu, Chuo-ku, Tokyo.
Asahi Film Co, 2-12 Kami-Jujo, Kita-ku, Tokyo.
Asahi Movie Service, 2-58 Itabashi, Itabashi-ku, Tokyo.
Chuo Television Co, Toyo Bldg, Shiba-Tamuracho, Minato-ku, Tokyo.
Daiei Co Ltd, 3-2 Kyobahi, Chuo-ku, Tokyo.
Dentsu Eigasha Co. Ltd, No. 2 Kosan Bldg, Tsukiji, Chuo-ku, Tokyo.
Global Production Co, 15 Ageba, Shinjuku-ku, Tokyo.
Glovision Co. Ltd, No. 6 Kojimachi Bldg, Kojimachi, Chiyoda-ku, Tokyo.
Ikkosha Co. Ltd, Matsushita Bldg, Yarai-cho, Shinjuku-ku, Tokyo.
Ikueisha Co. Ltd, 1-24 Asahigaoka, Nerima-ku, Tokyo.
International Eiga Co, Katakura Bldg, 3-2 Kyobashi, Chuo-ku, Tokyo.
Ishihara Promotions Co, Toranomon Kogyo Bldg, Shiba Kotohiracho, Minato-ku, Tokyo.
Iwanami Eiga Co. Ltd, 2-21 Kanda Misakicho, Chiyoda-ku, Tokyo.
Jacom Inc, 2-43 Nagato Cho, Chiyoda-ku, Tokyo.
Kinoshita Productions, 3-22 Kanda Nishiki-cho, Chiyoda-ku, Tokyo.
Kiroku Eigasha Co, 2-12 Yoyogi, Shinjuku-ku, Tokyo.
Kokusai Hoei Co, No. 2 Namiya Bldg, Ginza-Nishi, Chuo-ku, Tokyo.
Kyoiku Eiga Haikyusha, Asahi Bldg, Ginza-Nishi, Chuo-ku, Tokyo.
Mushi Production Co, 2-30 Fujimidai, Nerima-ku, Tokyo.
Nichiei Kagaku Eiga Co, Tsukiji No. 3 Bldg, Tsukiji, Chuo-ku, Tokyo.
Nihon Ad Film Co, Roppongi Bldg, Roppongi, Minato-ku, Tokyo.

Japan

Nihom Tennenshoku Co, 22 Hanazonocho, Shinjuku-ku, Tokyo.
Nikkatsu Co. Ltd, Nikkatsu Kokusai Kaikan, Yuraku-cho, Chiyoda-ku, Tokyo.
Nikkei Eigasha Co. Ltd, 1-5 Ohtemachi, Chiyoda-ku, Tokyo.
Nitto Eiga Co, Tsukiji Kayo Bldg, Tsukiji, Chuo-ku, Tokyo.
Riken Eiga Co. Ltd, Daiichi Taihei Bldg, Tsunohazu, Shinjuku-ku, Tokyo.
Sen-ei Co. Ltd, 1 Shiba Takanawa Nishidaimachi, Minato-ku, Tokyo.
Shochiku Co. Ltd, 1-13 Tsukiji, Chuo-ku, Tokyo.
Studio Zero, 336 Yodobashi, Shinjuku-ku, Tokyo.
Taihei Film Co, 2-45 Tsunohazu, Shinjuku-ku, Tokyo.
TBS Eigasha Co. Ltd, 5-3 Akasaka, Minato-ku, Tokyo.
Televi Doga Co. Ltd, 48 Ichigaya Nakamchi, Shinjuku-ku, Tokyo.
Toa Hassei Eiga Co, No. 2 Okura Bldg, Uchisaiwaicho, Chiyoda-ku, Tokyo.
Toei Co Ltd, Toei Kaikan, Ginza-Nishi, Chuo-ku, Tokyo.
Toho Co. Ltd, 1-14 Yuraku-cho, Chiyoda-ku, Tokyo.
Tokyo Animation Studio, 6-1 Roppongi, Minato-ku, Tokyo.
Tokyo Color Film Co, 1-7 Ginza-Nishi, Chuo-ku, Tokyo.
Tokyo Commercial Film, Kyodo Bldg, Aoyama, Minato-ku, Tokyo.
Tokyo Daiichi Film, Nikkatsu Kokusai Kaikan, Yurakucho, Chiyoda-ku, Tokyo.
Tokyo Eiga Co, 206-17 Funabashi, Setagaya-ku, Tokyo.
Tokyo Kagaku Eiga, 4-11 Yotsuya, Shinjuku, Tokyo.
Tokyo Kiroku Eiga, Yoyogi Higashi Bussan Bldg, Yoyogi, Shinjuku-ku, Tokyo.
Tokyo Televi Art, Nibancho, Chiyoda-ku, Tokyo.
Tokyo Televi Center, 1 Nihonbashi Hamacho, Chuo-ku, Tokyo.
Tokyo Televi Eiga, 5-3 Akasaka, Minato-ku, Tokyo.
Towa Co. Ltd, Play Guide Bldg, Ginza 2-chome, Chuo-ku, Tokyo.
World Television, 9-5 Akasaka, Minato-ku, Tokyo.
Yomiuri Eigasha Co, 2-1 Ginza-Nishi, Chuo-ku, Tokyo.

Lebanon

Cinetelevision International R.T, Cine Byblos Bldg, Beirut.

Australia

Abal Studios, 18 Collins St, Melbourne, Vic (CF).
Advent Radio-Television Productions, 150 Fox Valley Rd, Wahroonga, Sydney, N.S.W. (F).
Animads Pty. Ltd, c/o Artransa Park Television, Frenchs Forest, Sydney, N.S.W. (C).
Api-Air Programs International, 38 Martin Place, Sydney, N.S.W. (C).
Artransa Park Television Py. Ltd, Warringah Rd, Frenchs Forest, Sydney, N.S.W. (CF).
R. Barrington Scott Pty. Ltd, 501 St. Kilda Rd, Melbourne, Vic. (CF).
Baglin, Douglass, Pty. Ltd, 100 Pacific Highway, St. Leonards, Sydney, N.S.W. (C).
Broadcast Exchange of Australia, 643 Chapel St, South Yarra, Melbourne, Vic. (CF).
Academy Film Productions, 121 Maroondah Highways, Ringwood, Melbourne, Vic. (CF).
Ajax Films Pty. Ltd, 43 Yeo St, Neutral Bay, Sydney, N.S.W. (CF).
Amalgamated Pictures Australia Pty. Ltd, 15-19 Kings Cross Road, Sydney, N.S.W. (C).
Armstrong, Bill, Pty. Ltd, 100-110 Albert Rd, South Melbourne, Vic. (C).
Australian Instructional Films Pty. Ltd, Room 22, 51 Pitt St, Sydney, N.S.W. (F).
Career Productions Pty. Ltd, Suite 103, 6 Clarke St, Crows Nest, Sydney, N.S.W. (F).
Blanks, Chas. E. Pty. Ltd, 28-30 Foveaux St, Sydney, N.S.W. (CF).
Bushelle, John, Productions Pty. Ltd, 90 Arthur St, North Sydney, N.S.W. (CF).
Cambridge Film and T.V, Productions Pty. Ltd, 3 Armstrong St, Middle Park, Melbourne, Vic. (CF).
Camera Craft Pty. Ltd, 20 Ivory St, Brisbane, Qld (CF).
Cenetel Film Production Scs, 94 Walker St, North Sydney, N.S.W. (CF).
Christopher Productions Pty. Ltd, Northern Rd, Baulkham Hills, Sydney, N.S.W. (CF).
Cinesound Production Pty. Ltd, 541 Darling St, Rozelle, Sydney, N.S.W. (CF).
Collings Productions Pty. Ltd, 50 Walker St, North Sydney, N.S.W. (C).
Consolidated Film Producers Pty. Ltd, 420 St. Kilda Rd, Melbourne, Vic. (CF).
Dimond, Peter, Films, 21 Little Comber St, Paddington, N.S.W. (CF).
Eltham Film Productions Ltd, 248-250 Dorcas St, South Melbourne, Vic. (F).
Cameo Film Production, 94 Walker St, North Sydney, N.S.W. (CF).
Cardin Film Service, c/o Automatic Film Laboratories, 513 Dowling St, Moore Park, Sydney, N.S.W. (C).
Central Studio Services Pty. Ltd, 3A Queens Rd, Melbourne, Vic. (C).
Church of England Television Society, 511 Kent St, Sydney, N.S.W. (F).
Clarke's Bruce, Jingle Workshop Pty. Ltd, 420 St. Kilda Rd, Melbourne, Vic. (C).
Commercial and Television Advertising Studios, 74B Trafalgar St, Annandale, Sydney, N.S.W. (C).
Crawford Productions Pty. Ltd, 475 Collins St, Melbourne, Vic. (CF).
Driver, Roy A. and Associates, 31 Agnes T, East Melbourne, Vic. (F).
Featured Theatre Ads, 106-110 Goulburn St, Sydney, N.S.W. (C).
The Film House Pty. Ltd, 270 George St, Fitzroy, Melbourne, Vic. (CF).
Fortune Film and T.V. Productions Pty. Ltd, 2 Wentworth Ave, Sydney, N.S.W. (CF).
Graphik Animation Pty. Ltd, 67 Union St, Paddington, N.S.W. (CF).
Gothic Film Productions Pty. Ltd, 305 Penshurst St, Willoughby, Sydney, N.S.W. (CF).
Hill, Dennis, Productions, 2 Heathcliff Cres, Balgowlah, Sydney, N.S.W. (CF).

Australia

Isaacson, Gunnar, Productions, 53 Wallamatta Rd, Newport, Sydney, N.S.W. (F).
Kinetone Productions Pty. Ltd, 144-146 Main Ave, Windsor, Brisbane, Qld. (CF).
Koffel, David, Film and T.V. Productions, 106-110 Goulburn St, Sydney, N.S.W. (C).
Mooney-Webb T.V. and Radio Unit, 25-27 Rathdown St, Carlton, Melbourne, Vic. (C).
Fontana Films Pty. Ltd, 14 Henderson St, Turella, Sydney, N.S.W. (CF).
Fraser Castle Productions, 61 Kareela Rd, Cremorne, Sydney, N.S.W. (F).
Grundy, Reg. Enterprises, 83 Miller St, North Sydney, N.S.W. (F).
International Film Service, 712b Savoy House, 25 Bligh St, Sydney, N.S.W. (F).
H. W. Productions, 65 Ebley St, Bondi Junction, Sydney, N.S.W. (C).
Keen, L. and D. Pty. Ltd, 24 Musgrave Rd, Normanby, Brisbane, Qld. (C).
Kingcroft Productions Pty. Ltd, 29A Rosalind St, Crows Nest, Sydney, N.S.W. (C).
Malcolm, George, Productions, Pty. Ltd, 39 Beaconsfield St, Newport, Sydney, N.S.W. (CF).
Morgan, Val, and Sons, Pty. Ltd, 64 Elizabeth St, Melbourne, Vic. (C).
Nava Pty. Ltd, 241 Broadway, Sydney, N.S.W. (C).
NLT Productions Pty. Ltd, 19-21 Berry St, North Sydney, N.S.W. (F).
Pacific Films Productions, 158 Moray St, South Melbourne, Vic. (F).
Pilgrim Production Ltd, 77 Pitt St, Sydney, N.S.W. (C).
Reilly Advertising Co. Pty. Ltd, 145 Collins St, Melbourne, Vic. (C).
Sargent, Stefan, Productions Pty. Ltd, 167 Blues Point Rd, McHahahon's Point, Sydney, N.S.W. (CF).
Senior Film Productions Pty. Ltd, 44 Pakington St, St. Kilda, Melbourne, Vic. (CF).
Southern Cross Films Pty. Ltd, Boronia Rd, Seaforth, Sydney, N.S.W. (CF).
Supreme Films Pty. Ltd, 11-15 Young St, Paddington, N.S.W. (CF).
Network Telefilm Services Pty. Ltd, 305 Penshurst St, Willoughby, Sydney, N.S.W. (CF).
Owen Brothers Animated Films Pty. Ltd, 64 Elizabeth St, Melbourne, Vic. (C).
Perier Film Productions Pty. Ltd, 24 Jamieson St, Sydney, N.S.W. (C).
Porter Eric, Productions Pty. Ltd, 101 Union St, North Sydney, N.S.W. (C).
Richardson, John, Film Productions, 157 Greville St, Praham, Melbourne, Vic. (C).
Scheffer, John, Production, 561 Punt Rd, South Yarra, Melbourne, Vic. (C).
Solarscrome Colour Productions Pty. Ltd, 74b Trafalgar St, Annandale, Sydney, N.S.W. (C).
Southern Documentary Productions Pty. Ltd, 22 Godolphin St, Bulli, N.S.W. (CF).
Telemark Productions Pty. Ltd, Macdonnell House, 321 Pitt St, Sydney, N.S.W. (CF).
Tempo Photographic and Bromiding Sces, 50 Albert Rd, Melbourne, Vic. (C).
Tornado Films Pty. Ltd, 18 Collins Rd, Melbourne, Vic. (CF).
Wood, Ross, Productions Pty. Ltd, 15-19 Boundary St, Rushcutters Bay, Sydney, N.S.W. (CF).
Willard King Organisation Pty. Ltd, 1 Carlton St, Praham, Melbourne, Vic. (F).
Thompson, Geoffrey, Film Productions, 78 Illawarra Rd, Hawthorn, Melbourne, Vic. (C).
Trojan Film Productions Pty. Ltd, 103-105 Oxford St, East Sydney, Sydney, N.S.W. (CF).
Whitfords Theatres Ads. Pty. Ltd, 20th Century Fox Corp. Bldg, 43 Brisbane St, Sydney, N.S.W. (C).
Workshop Films, Suite 1, Jule House, 2 Northcote St, St. Leonards, Sydney, N.S.W. (CF).
Cine Service Pty. Ltd, 235 Moray St, South Melbourne, Vic. (CF).

New Zealand

Associated Film Makers, Vogue Theatre Bldg, Brooklyn, Wellington.
Birch Rising Ltd, Box 3034, Auckland.
Sam Harvey, P.O. Box 5158, Auckland.
Hayward Rudall, P.O. Box 8647, Auckland.
Morrow Productions, Weraroa Rd, Levin.
National Film Unit (Govt), Box 15002, Miramar, Wellington.
Pacific Films Ltd, P.O. Box 2040, Wellington.
Peach Wemyss Ltd, Vogue Theatre Bldg, Brooklyn, Wellington.
Reynolds, A.H, 49 Wakefiled St, Auckland.
Robbins Recordings and TV Films, 83 Springfield Rd, Christchurch.
Steele Telefilms, P.O. Box 17018, Auckland.
Tristram Films Ltd, P.O. Box 8707, Auckland.
Visicom Films Ltd, P.O. Box 522, Masterton.

NORTH AMERICA (exc. U.S.A.)

Bermuda

Bermuda Radio & TV Co. Ltd, P.O. Box 452, Hamilton.

Canada

Advertel Productions Ltd, 742 Bay St, Toronto 2, Ont. (C).
ADS Film Productions, 68 Merton St, Toronto 7, Ont.
AKO Productions Ltd, Suite 505, 32 Front St. W, Toronto, Ont.
Robert Anderson Associates Ltd, Sky Ridge, Mountain Rd, Aylmer East, Quebec.
Animation Productions Ltd, R.R.1, Moffat, Ont. (C).
ASP Productions Ltd, 35 Prince Arthur Ave, Toronto 5, Ont. (FC).
Atlantic Films & Electronics Ltd: 22 Prescott St, St. John's, Nfld; 2071 University St, Montreal, Que.
Banks (In Television) Ltd, 310 Dupont St, Toronto 5, Ont. (F).
Robert Barclay & Co, 110 Park Rd, Toronto 5, Ont.

Canada

David Bier Studios, 265 St. Vitre St. W, Montreal, Que. (C).
Briston Films Ltd, 1490 Sherbrook St. W, Montreal, Que.
British Columbia Television Broadc. Ltd, P.O. Box 4700, Vancouver 3, (FC).
Campbell Productions, 19 Cindy St, Petersborough, Ont.
Canawest Film Productions, 1345 Burrard, Vancouver 1, B.C. (C).
Canawest-Master Films Ltd, 815-17th Ave. S.W, Calgary, Alta. (C).
Chetwynd Films Ltd: 10 Banigan Drive, Toronto 17, Ont; 1118 Melville St, Vancouver, B.C (CF).
Cherry Film Productions, 25 Bell St, Regina, Sask.
Jack Chisholm Film Products Ltd, Suite 102, 4 New St, Toronto 5, Ont.
Cine-Audio Ltd, 10251-106th St, Edmonton, Alta.
Les Cineastes Associates, 257 Commissioner St, Montreal, Que. (FC).
Cineclair Ltd, 1627 St. Catherine St. W, Montreal 25, Que.
Cinefilms Inc, 1855 Dorchester St. W, Montreal 25, Que. (F).
Nat Clavier Productions, 571 Alesther St, Castle Heights, Ottawa, Ont.
G. Morgan Coote Films Ltd, 9 Trailsmoke Crescent, Etobicoke, Ont. (FC).
Crawley Films Ltd: 19 Fairmont Ave, Ottawa 3, Ont; 91 Yorkwille Ave, Toronto 5, Ont; 1 Place Ville Marie, Montreal 2, Que. (FC).
Crystal Film Productions Ltd, 447 Jarvis St, Toronto, Ont. (C).
Danrex Productions, 427 Eglinton Ave. W, Toronto 12, Ont.
Davis Bennett Productions Ltd, 718 Granville St, Vancouver 2, B.C.
Ken Davey Productions Ltd, 683-697 Sargent Ave, Winnipeg, Man. (C).
Enterprises Barded Ltd, 5871 Victoria Ave, Montreal, Que. (F).
EFK Films, Sheraton Connaught Hotel, Hamilton, Ont.
Fifeshire Motion Pictures Ltd, 2349 Yonge St, Toronto 12.
Filmarc Productions Ltd, 2100 Drummon St, Suite 440, Montreal, Que. (C).
Film Art Corp. Ltd, 55 Charles St. W, Toronto 5, Ont. (C).
Film Design Ltd, 137 Wellington St. W, Toronto, Ont. (C).
Film Masters, 427 Eglinton Ave. W, Toronto 12, Ont. (C).
Fortune Films Ltd, 1033 Davie St, Vancouver, B.C. (FC).
Fourth Dimension Productions Corp, 505 Ker Bldg, Regina, Sask. (C).
Dan Gibson Productions Ltd, 196 Bloor St. W, Toronto, Ont.
Grattan Productions Inc, 2045 Bishop St, Suite 3, Montreal, Que. (F).
Graco Productions Ltd, Suite 404, 500 University Ave, Toronto, Ont. (C).
The Guest Group, 15 Duncan St, Toronto, Ont. (FC).
Richard Gilbert Film Productions Ltd, 1411 Crescent St, Suite 507, Montreal 25, Que. (F).
Paul Herriott Productions, 30 College St, Toronto, Ont. (FC).
Hirst Film Productions, 1535 Kilmer Road, North Vancouver, B.C. (C).
Holmes Film Productions, 26 Blowers St, Halifax (C).
Francis J. S. Holmes Ltd, 666 Riverwood Ave, Winnipeg 19, Man.
Inter Video Productions Ltd, 65 Front St. East, Toronto, Ont. (FC).
J. M. Film Productions, 10677 Hamelin St, Montreal, Que. (FC).
JPL Productions, 1425 Maissoneuve St, Montreal, Que.
Keg Productions Ltd, 556 Church St, Toronto, Ont. (F).
Key Film Productions Ltd, 137 Wellington St. W, Toronto, Ont.
Allan King Associates (Canada) Ltd, 241 Bedford Rd, Toronto, Ont. (F).
Roy Krost Productions Ltd, 135 Isabella St, Toronto, Ont.
Les Films Lavoie Inc, 477 Dolbeau St, Quebec City, Que. (F).
Robert Lawrence Productions (Canada) Ltd, 38 Yorkwille Ave, Toronto 5, Ont. (FC).
John Lowry Productions Ltd, 44 Wellington St. E, Toronto, Ont. (C).
Mariner Films Ltd, 1161 Melville St, Vancouver 5, B.C.
Jack Markow & Co. Ltd, 1827 St. Catherine St. W, Montreal 25 (C).
Moreland-Latchford Productions Ltd, 2298 Yonge St, Toronto 12.
Motion Picture Centre Ltd, 10 Banigan Dr, Toronto 17, Ont.
Norfilm Co, 217 Juniper Dr, Port Arthur, Ont. (C).
Omega Productions Ltd, 1103 St. Matthew St, Montreal 25, Que. (FC).
Lew Parry Film Productions, 1759 Capilano Rd, N. Vancouver (F).
Peterson Productions Ltd, 121 St. Patrick St, Toronto, Ont. (C).
Rabko Television Production Co. Ltd, 179 Richmond St. W, Toronto, Ont. (C).
Reuland Productions Ltd, Suite 805, 170 University Ave, Toronto 1, Ont. (C).
Rose-Magwood Productions (Canada) Ltd, 233 Jarvis St, Toronto, Ont. (C).
Salvation Army Living World Productions, 20 Albert St, Toronto 1, Ont. (F).
Sebert Productions Ltd, 508 Church St, Toronto, Ont.
Spaulding, Taylor, Hall Ltd, 328 Wellesley St. E, Toronto (F).
Summit Film Productions Ltd, R.R.2, Hespeler, Ont. (C).
Taylor Television Productions Ltd, 7 King St. E, Suite 1408, Toronto 1, Ont. (F).
TDF Film Productions Ltd, 980 Yonge St, Toronto 5 (C).
Television & Motion Picture Film Productions, 1535 Kilmer Rd, North Vancouver, B.C.
Thatcher Film Productions, 895 O'Connor Dr, Toronto 16 (FC).
Tolea Film Productions Inc, 141 Dixon St, Ville LaSalle, Montreal, Que. (FC).
United Church of Canada, Berkeley Studio, 315 Queen St. E, Toronto 2, Ont. (F).
Van de Water Films Ltd, 1231 St. Catherine St. W, Montreal, Que. (FC).
VIP Productions, Suite 201, 56 Esplanade St, Toronto, Ont. (FC).
Westminster Films Ltd, 259 Gerrard St, Toronto 2, Ont.
Don Wilder Ltd. & Co, 95 Berkely St, Toronto 2, Ont. (C).
Williams, Drege & Hill Ltd, 12 Shuter St, Toronto, Ont.

CENTRAL AMERICA

Puerto Rico

Damian Rosas Productions, P.O. Box 1418, San Juan 00902 (F).
Delta Films International Inc, 357 Ponce de Leon Ave, San Juan (F).
El Mundo-WKAQ TV, P.O. Box W-GPO, San Juan, 00936 (F).
Filmes Corp, 1602 Loiza St, Santurce (F).
Pakyra Films Corp, P.O. Box 1282, Hato Rey, 00918 (F).
Vigue Film Productions Inc, Lamar & Salaman St, Hato Rey, 00918 (F).
Vigue-Guastella Inc, Urb. Ind. Tres Monjitas, Hato Rey, 00918 (F).

Puerto Rico
Wapa-TV, Carr. No. 20, KM 0.5, Guaynabo (F).
WKBM-TV, P.O. Box 4189, San Juan, 00902 (F).

Mexico
Tele Cadena Mexicana, Reforma 45, Piso 16, Mexico 1.

SOUTH AMERICA

Argentina
B.T.B. Producciones, Lavalle 1447, Buenos Aires.
Boquete-Jabiu, Corrientes 2434, Buenos Aires.
Cinecom, Sarmiento 2069, Buenos Aires.
Castro Alejandro, Libertad 478, Buenos Aires.
Coty Argentina, Corrientes 11-45, Buenos Aires.
Cristal Producciones, Alsina 1535, Buenos Aires.
Cine Animacion, Rivadavia 882, Buenos Aires.
Delta Films, Bernardo de Irigoyen 745, Buenos Aires.
Dimar Cinematografica, Córdoba 1661, Buenos Aires.
Ele Producciones, Sarmiento 1171, Buenos Aires.
Estudio Estilo Producciones, Solis 1826, Buenos Aires.
Garcia Ferre Producciones, Viamonte 723, Buenos Aires.
Galuppo Osvaldo, Tucumán 2799, Buenos Aires.
Gil & Bertolini Producciones, Pasteur 377, Buenos Aires.
Gonzalez Groppa Producciones, Montevideo 1865, Buenos Aires.
Igriega Producciones, Carlos Pelegrini 755, Buenos Aires.
Imaginacion Producciones, Callao 406, Buenos Aires.
Libra Producciones, Paraná 230, Buenos Aires.
Lowe Producenter, Bartolome Mitre 1971, Buenos Aires.
MC Films, Viamonte 1730, Buenos Aires.
Meyer Films, General Urquiza 178, Buenos Aires.
Mepa Estudios Cinematograficos, Ramos Mejía 985, Buenos Aires.
NBS Productores Associados, Callao 449, Buenos Aires.
Printer Avance Producciones, San Luis 3070, Buenos Aires.
Proart S.R.L., Olleros 1775, Buenos Aires.
Publifilm, Ayacucho 543, Buenos Aires.
Rodin Studios, Córdoba 1439, Buenos Aires.
Story Producciones, Viamonte 1730, Buenos Aires.
Solanas Producciones, Tucumán 255, Buenos Aires.
Telefilms Producciones, Paraquay 755, 5/6 pisos, Buenos Aires.
Telesound, Uruguay 162, Buenos Aires.

Brazil
Radio Televisão Excelsior, Rua Visconte de Piraja 595, Rio de Janeiro.

Chile
Emelco-Chile, Bernardo O'Higgins 232, Santiago.
Protel, Tarapaca 752, Santiago.

U.S.A.

ABC Films Inc, 1330 Ave. of the Americas, New York 10019 (F).
Branches: 360 N. Michigan Ave, Chicago; 1313 N. Vine St, Hollywood; 200 26th St. NW, Atlanta.
Academy Film Productions Inc, 123 W. Chestnut St, Chicago (CF).
Ad-Image Associates, 30 Overlook Terrace, East Hills, Roslyn Heights, Long Island, N.Y. (CF).
Ad Staff Inc, Suite 1597, Crossroads of the World, Hollywood 90028 (C).
Advertisers' Broadc. Co, 117 W. 46th St, New York 10036 (CF).
Allend'or Productions Inc, 3449 Cahuenga Blvd. West, Hollywood 28 (CF).
Allied American Television, 342 Madison Ave, New York 10017 (F).
Allied Artists Television Corp, 230 West 41st St, New York 10036 (F).
All-Scope Pictures Inc, 15836 Londelius St, Sepulveda, Calif. (CF).
All-Star Radio & TV Productions, 1431 North State Pkwy, Chicago, Ill. (F).
Alpha Film Productions, P.O. Box 5325, Baltimore 21209 (C).
Amazing But True Inc, 80 Barnard Rd, New Rochelle, N.Y.
American Diversified Sces, Lock Box 975, Kingsport, Tenn. (CF).
Branches: Los Angeles: 1128 Niogden. New York: 211E. 53rd.
American Foundation for the Blind Inc, 15 W. 16th St, New York 10011 (F).
American International Television Inc, 165 W. 46th St, New York 10036 (F).
Branches: Los Angeles: 1370 Veteran Ave; St. Petersburg, Fla: 6237 Gulfport Blvd.
American Medical Association, 535 N. Dearborn St, Chicago 60610 (F).
Branches: One Farragut Square South, Washington 200366; 1717 Highland Ave, Hollywood 90028.
America's Productions Inc, 600 Biscayne Blvd, Miami 33132 (CF).
Jack Anderson Productions, 1701 North 74th St, Omaha 68114 (F).
Applied Concepts Inc, 866-3rd Ave, New York 10022 (C).
Arrowhead Productions, 291 S. LaCienega Blvd, Beverly Hills, Calif. (CF).
Associated Film Consultants, Mercury News Film Inc, 501 Madison Ave, New York 10022 (CF).
Audio Productions Inc, 630 9th Ave, New York 10036 (C).
Austin Productions Inc, 588 W. Spring St, Lima, Ohio (C).
Avco Broadcasting Corpo, 1600 Provident Tower, Cincinnati 45202 (CF).
Branches: Cincinnati: WLWT(TV) 140 W. Ninth St, WLW 140 W. Ninth St; Columbus, Ohio: WLWT(TV) 3165 Olentangy River Rd; Dayton, Ohio: WLWD(TV) 4590 Avco Drive; Indianapolis: WLWI(TV) 1401 N. Meridian St; Washington: WWDC P.O. Box 4068; San Antonio, Tex: WOAI (TV) 1031 Navarro St, WOAI 1031 Navarro St; San Francisco: KYA & KOIT(FM) Avco Broadc. of California, 1 Nob Hill Circle.
Award Films (Successor to Kling Film Syndication), 20 N. Wacker Dr, Chicago 60606 (CF).

George Bagnall & Associates, 8827 Olympic Blvd, Beverly Hills, Calif. 90211 (F).
Bandelier Films Inc, 1837 Lomas Blvd. N.E, Albuquerque, N.M. (CF).

U.S.A.
Barbre Productions Inc, 2130 S. Bellaire St, Denver 80222 (CF).
Basch Radio & Television Productions, 25 W. 45th St, New York 10036 (CF).
Beacon Broadc. Corpo, 506 Harvard St, Brookline 46, Mass (CF).
Beacon TV Features Inc, 708 Washington St, Dedham, Mass. 02026 (CF).
William G. Beal Inc, 188 Carlton House, Pittsburgh 15219 (CF).
V. S. Becker Productions, 2593 Grand Concourse, New York 68 (CF).
Beverly Hills Film Corp, 202 North Canon Dr, Beverly Hills, Calif. (CF).
Stephen Bosustow Productions, 20548 Pacific Coast Hwy, Malibu, Calif. 90265 (CF).
Braverman/Shaw & Associates, Box 621, Santa Monica, Calif. 90406 (CF).
Bray Studios Inc, 729 7th Ave. New York 10019 (F).
Brentwood Pacific, 3286 Sumac Ridge, Malibu, Calif (F).
Bridget H. Television Prod, 4204 Cahuenga Blvd, North Hollywood, Calif. (F).
British Information Scs, 845 Third Ave, New York 10022 (F).
Broadcast Productions Inc, 3948 Time & Life Bldg, New York 10020 (C).
Broadcast Sales Inc, 745 Fifth Ave, New York 10022 (F).
Branches: Mill Valley: 336 Laurel Way, Calif. 94941.
Bill Burrud Productions, 1100 S. La Brea Ave, Los Angeles 90019 (CF).

Wally Byam Caravan Prod, 1900 Beverly Blvd, Los Angeles 90057 (F).
Comgro The Communications Group, A Corporation, 421 West 54th St, New York 10019 (CF).
C.R. Enterprises Ltd, 1148 S. Shenandoah St, Los Angeles 90035 (CF).
CT Film Center Inc, Midtown Plaza, Syracuse N.Y. 13210 (CF).
California Intern. Productions, 6710 Melrose Ave, Hollywood 90038 (CF).
Cameo Productions Inc, 1411 Touhy Ave, Chicago 60626 (CF).
Branch: Chicago (Animation studio): 10 E Huron St.
Candid Productions Inc, 119 West 67th St, New York 10019 (F).
Canyon Films of Arizona, 834 North 7th Ave, Phoenix 85007 (F).
Cathedral Films Inc, 2921 W. Alameda Ave, Burbank, Calif. (F).
Center for Mass Communications of Columbia Univ. Press, 1125 Amsterdam Ave, New York 10025 (F).
Hu Chain Assoc, 15 E. 48th St, New York 17 (C).
Channel One Inc, 1727 Clifton Rd, N.E, Atlanta 30329 (CF).
The Bruce Chapman Co, Grafton, VT. (F).
Chapman S. Productions Inc, 3805 West Magnolia Blvd, Burbank, Calif. 91505 (CF).
Branches: 747 Stevenson St, San Francisco; 821 North Van Ness, Fresno, Calif.
Robert Chenault Productions, 1028 N. La Brea Ave, Hollywood (C).
Chicago Film Laboratory Inc, 1322 Belmont Ave, Chicago (C).
Cinecraft Inc, 2515 Franklin Blvd, Cleveland 44113 (CF).
Cinema Associate Productions Inc, P.O. Box 727, Lansing, Mich. 48903 (CF).
Cinema-Vue Corp, 245 W. 55th St, New York 10019 (CF).
Cine-View Inc, (Cine-Tele Productions), 8325 Santa Monica Blvd, Hollywood 90038 (CF).
Cinews, P.O. Box 295, 1008-10th St, Manhattan Beach, Calif. (CF).
Claster Enterprises Inc, 2229 North Charles St, Baltimore 21218 (F).
Clifton Productions Inc, 305 East 86th St, New York 28 (F).
John Colburn Associates Inc, P.O. Box 236, 1215 Washington Ave, Wilmette, Ill. (CF).
Columbia Films Inc, P.O. Box 5656, 4963 Jackson Blvd, Columbia S.C. 29205 (CF).
Continental Film Productions Corp, 2320 Rossville Blvd, Chattanooga (F).
Jack L. Copeland Productions, 3518 Cahuenga Blvd. West, Hollywood 90028 (F).
CorRay Productions, 412 Produce Bang Bldg, Minneapolis 55403 (CF).
Thomas Craven Film Corp, 330 E. 56th St, New York 10022 (CF).
Creativision Inc, 1780 Broadway, New York 10019 (C).
Bing Crosby Productions Inc, 780 N. Gower, Hollywood 90038 (F).
Gordon Crowe Productions Inc, 15E-41st St, New York (CF)
Crystal Pictures Inc, 1564 Broadway, New York 10036 (F).

Phil Davis Musical Enterprises Inc, 400 E. 52nd St, New York 10022 (C).
Gordon M. Day Inc, 72 West 45th St, New York 10036 (C).
D4 Film Studios Inc, 56 Elmwood St, Newton, Miss 02158 (C).
Calvin De Frenes Corp, 1909-17 Button Wood St, Philadelphia 30 (CF).
Demby Productions Inc, 44 W. 56th St, New York 10019 (CF).
Dorian DeNarde Productions, 3E 57th St, New York (C).
Hal Dennis Productions, 6314 La Mirada Ave, Hollywood 38 (CF).
Desilu Productions Inc, 780 N. Gower St, Hollywood 90038 (CF).
Detroit University Radio-TV Centre, 3800 Puritan, Detroit 48238 (F).
Leo Diner Films Inc, 350 Golden Gate Ave, San Francisco 94102 (C).
Walt Disney Productions, 500 S. Buena Vista, Burbank, Calif. (F).
Documentary Programs Inc, 3132 M. St. N.W, Washington 7 (F).
Dolphin Productions Inc. and Dolphin International, 4th E. 53rd St, New York 10022 (CF).
Douglas Film Industries, 10 W. Kingle St, Chicago 60610 (CF).
Dick Drury Associates Inc, 5812 Stadium St, San Diego 92122 (C).
Cal Dunn Studios Inc, 141 W. Ohio St, Chicago 60610 (CF).
Branch: 1040 North Las Palmas, Hollywood 90038 (CF).
Dynamic Films Inc, 405 Park Ave, New York 10022 (CF).

EUE/Screen Gems Commercial and Industrial Division, 513 West 54th St, New York 10019 (C).
Branches: 230 North Michigan Ave, Chicago; Columbia Ranch, Hollywood Way & Oak St, Burbank.
Eade Enterprises Inc, 1742 Church St. N.W, Washington 6 (CF).
Educational Communications Association, 704 National Press Bldg, Washington 20004 (F).
Educational Film Enterprises Inc, 1023 No. La Cienega, Los Angeles 90069 (CF).
Educational Productions, 8328 Willow Way, Raytown, Mo. (F).

U.S.A.

Ed-Venture Films, 1122 Calada St, Los Angeles 90023 (CF).
Elektra Film Productions Inc, 33 W. 46th St, New York 10022 (C).
Elliot, Unger & Elliot (Commercial Div. of Screen Gems Inc.), See EUE/ Screen Gems listing (C).
Charles Elms Production Inc, 163 Highland Ave, North Tarrytown, N.Y. 10593 (CF).
Embassy Pictures Corp, 1301 Ave. of the Americas, New York 10019 (F).
Encyclopedia Britannica Educational Corp, 425 North Michigan Ave, Chicago 60611 (F).
Branches: Skokie: 4424 Oakton St, Ill. 60076; Baraboo: 332 12th St, Wis. 53913; 363 El Camino Rd, So. San Francisco, Calif. 94080; 105 Cliftwood Dr. N.E, Atlanta 30328; 5288 Foot Hill Blvd, Oakland, Calif. 94601; 5625 Hollywood Blvd, Hollywood; 520 North Michigan, Chicago 60611; 180 East Post Rd, White Plains, N.Y; 38 West 32nd St, New York 10001; 277 Pharr Rd, Atlanta 30305; 1227 Kingston Ridge Rd, Cary, N.C; 220 Blackman Rd, Nashville 36211; 26539 Grand River Rd, Detroit 48240; 30 Gracewood Dr. So, Centreville, Ohio 45459.
Enterprise Productions, 6925 Tujunga Ave, North Hollywood, Calif. 91609 (CF).
The Episcopal Church (Div. of Radio & TV of the Executive Council), 815 Second Ave, New York 10017 (F).
John A. Ettinger Assoc. (see Medallion TV Enterprises listing) (F).

Mike Fadell Television Productions, 625 Second Ave. So, WCCO Bldg, Minneapolis 55402 (F).
Jerry Fairbanks Productions of Calif. Inc, 1330 N. Vine St, Hollywood 28 (F).
Faith for Today, 200 Stonehenge Lane, Carle Place L.I., N.Y. 11514 (F).
Family Theater Inc, 7201 Sunset Blvd, Hollywood 90046 (F).
Farkas Productions International, 257 Park Ave, South New York (CF).
Don Fedderson Productions, 4024 Radford St, Studio City, Calif. (F).
Dick Feldman Associates Inc, 425 East 51st St, New York 10022 (CF).
Poul J. Fennel Co, 4062 Radford Ave, Studio City, Calif. (C).
Fidelity Recording & Film Studios, 1540 McDaniels St, Highland Park, Ill. 60035 (CF).
Sid O. Fields Productions, 6058 Goodland Ave, North Hollywood, Calif. (F).
Filmation Associates, 10635 Riverside Dr, North Hollywood, Calif. 91602 (CF).
Filmfair, 10920 Venture Blvd, Studio City, Calif. 91604 (C).
Branches: Filmfair Communications, 2020 Alameda Padre Serra, Santa Barbara, Calif; Filmfair Inc, 399 E. 48th St, New York.
Film Formalics Inc, 72 W. 45th St, New York (C).
Film Investment Corp, 5912 West Olympic Blvd, Los Angeles 90036 (F).
The Film-Makers Inc, 615 N. Wabash Ave, Chicago 60611 (CF).
Films Five Inc, 146-51 28th Ave, New York 11354 (C).
Films of India, 109 S. Edinburgh Ave, Los Angeles 90048 (F).
Films of the Nations Distributors Inc, 305 E. 86th St, New York 10028 (F).
Films by Sel Levy Inc, 49 West 45th St, New York 10036 (CF).
Film Sync-TV Ltd, 1639 Broadway, New York (C).
Films/West Inc, 1522 North Van Ness Ave, Hollywood 90028 (C).
Filmvideo Releasing Corp, 333 W. 52nd St, New York 10019 (F).
Filmways Inc, Sperry Rand Bldg, 51 W. 51st St, New York 10019 (CF).
Branch: 4001 Overland Ave, Hollywood, Calif.
Fine Arts Productions Inc, 729 Seward St, Hollywood 90038 (CF).
Branch: 23371 West Seven Mile Rd, Detroit.
Fiore Films, 128 Mallory Ave, Jersey City, N.J. (CF).
Alan M. Fishburn Productions, 333 N. Michigan Ave, Chicago (C).
Flagg Films Inc, 6345 Fountain Ave, Hollywood 90028 (CF).
Florida Film Library, Florida Development Commission, Tallahassee, Fla. (F).
Focus Presentations Inc, 400 Park Ave, New York 10022 (CF).
Branch: Focus Studio, 20 West End Ave, New York.
Format Productions Inc, 12754 Ventura Blvd, Studio City, Calif. 91604 (CF).
Foundation For Christian Living, 1 W. 29th St, New York 1 (F).
Four Arts Ltd, 151 E. 50 St, New York (C).
Four Star International, 600 Fifth Ave, New York (F).
Four Star Television, 4030 Radford Ave. N, Hollywood (F).
Frank-James Productions, 224 N. Meramec Ave, Clayton, Mo. 63105 (FC).
Erwin Frakel Productions, 49 King St, New York 10014 (C).
Franklin Films Inc, 145-155 226 St. Jamaica, New York (CF).
Fraser Productions, 38 Hotaling Place, Jackson Square, San Francisco 94111 (CF).
Branch: 8541 Melrose Ave, Hollywood 90069.
Charles Fuller Productions, 2722 So. MacDill Ave. & 3015 Granada St, Tampa, Fla. 23609 (C).
Branches: 75 W. Columbia, Orlando, Fla; 15 Kneeland St, Providence RI.

Gallucci Brothers & Associates, Lake Rd, East Hampton, Conn. (C).
Branch: 3129 Hewitt Ave, Louisville, Ky.
General Pictures Corp, 4501 W. Pleasant Valley Rd, Cleveland 34 (C).
General Conference of Seventh-Day Adventists, 6840 Eastern Ave, N.W, Washington 20012 (F).
General Television Network, Div. of Mellink Steel Safe Co, 901 Livernois Ave, Ferndale 20, Mich. (C).
Branch: 1672 Oakwood, Toledo 6, Ohio.
Gerald Productions Inc, (Div. of COMGRO), 421 W. 54th St, New York 10019 (CF).
Harold R. Gingrich Productions, 111 N. Marion St, Oak Park, Ill. 60301 (C).
Glenar Studios, 6618 Sunset Blvd, Hollywood 90028 (CF).
Melvin L. Gold Enterprises Inc, 301 E. 48th St, New York (CF).
Chuck Goldstein Productions Inc, 730 Fifth Ave, New York 10019 (C).

U.S.A.

Goodson-Todman Productions, 375 Park Ave, New York 10022 (F).
Branch: 9460 Wilshire Blvd, Beverly Hills, Calif.
Gordon Newfilms, 1424 Bush St, San Francisco 9 (CF).
Goulding-Elliot-Productions Inc, 420 Lexington Ave, New York 10017 (C).
Ed Graham Productions Inc, 4721 Laurel Canyon Blvd, North Hollywood, Calif. 91607 (CF).
Lewis G. Green Productions, 520 N. Michigan Ave, Chicago 60611 (C).
Ben Greene Film Productions, 318 W. 51st St, New York 10019 (CF).
Greenway Productions, 20th Century-Fox Studios, West Los Angeles, Calif. (F).
Sherman Grinberg Productions (Div. of Filmrite Associates Inc), Columbia Studios, 1438 North Gower St, Hollywood 90028 (F).
Branch: 630 9th Ave, New York.
Grypon Productions Inc, 1212 Ave. of the Americas, New York 10036 (C).

H & H Productions, 3705 Nebraska Ave, Tampa, Fla. 33603 (CF).
H & S Productions Inc, 9722 Gerald Ave, Sepulveola, Calif. (CF).
Haberstroh Special Effects Films Inc, 9 W. 19th St, New York 10011 (C).
Handel Film Corp, 6926 Melrose Ave, Hollywood 90038 (CF).
Hankinson Studio Inc, 72 West 45th St, New York 10036 (C).
Hanna-Barbera Productions, 3400 Cahuenga Blvd, Hollywood 90028 (CF).
Byron Harriott, Radio & TV Sound Film Production Studios, 5075 N. 37th St, St. Petersburg 14, Florida (CF).
Harris-Tuchman Productions Inc, 751 N. Highland Ave, Hollywood 90038 (C).
Hartley Productions Inc, 279 E. 44th St, New York 10017 (CF).
Hartwest Television Inc, 635 Madison Ave, New York 10022 (F).
Poul Hayes Productions, 5968 Sixth St. South, St.Petersburg, Fla. 33705 (CF).
Hearst Metrotone News Inc, 450 W. 56th St, New York 10019 (CF).
Branches: 470 E. St. SW, Washington; 6087 Sunset Blvd, Hollywood 90027.
Heller-Ferguson Inc, 1606 No. Highland Ave, Hollywood 90028 (CF).
Heritage International Productions, 145 Central Park West, New York (F).
Holland-Wegman Productions Inc, 207 Delaware Ave, Buffalo, N.Y. 14202.
Howard Radio-TV Productions, 123 W. Chestnut St, Chicago (CF).

Ideas In Motion, 1735 E. 26th St, Brooklyn, New York (F).
Imagination Inc, 531 Pacific St, San Francisco (C).
Imperial World Films, 285 Mountain Ave, Sonoma, Calif. (CF).
Independent Television Corp, 555 Madison Ave, New York (F).
Instant Radio Programming, 748 Camp St, New Orleans 70114 (C).
Integrated Communications Systems Inc, 300 E. 46th St, New York (CF).
Inter-Continental Broadcast Media, 236 W. 55th St, New York 10019 (C).
Inter-Media Communications Corp, 420 Lexington Ave, New York 10017 (F).
Irving Productions, 1616 First National Bldg, Tulsa, Okla. 74103 (C).
Ken Israel & Assoc. Inc, One Twenty Elatan De, Pittsburg 15243 (CF).

JPI, 2785 N. Speer Blvd, Denver 80211 (CF).
Riley Jackson Productions, 6610 Selma Ave, Hollywood 90028 (CF).
Henry Jaffe Enterprises Inc, 200 West 57th St, New York 10019 (F).
Jefferson Productions, 1 Julian Price Pl, Charlotte (F).
Jenkyns, Shean & Elliott Inc, 8720 Sunset Blvd, Los Angeles 90069 (CF).
Jerry Jerome Productions Inc, 1 Snapdragon Lane, Boslyn Heights, L.I, New York (C).
Jewell Radio and Television Productions, 612 N. Michigan Ave, Chicago 60611 (CF).
William Randolph Johnson Productions, 621 N. Dearborn, Chicago 60610 (CF).
Jonathan Karas & Assoc, Science House, Manchester, Mass. (CF).

Stacy Keach Productions, 12240 Ventura Blvd, Studio City, Calif. (CF).
Keitz & Herndon Inc, 3601 Oak Grove, Dallas 4 (C).
Ken-Ten Productions, 806-16th Ave, Nashville (F).
Herbert Kerkow Inc, 14 E. 38th St, New York 10016 (C).
Poul Kim & Lew Gifford Productions Inc, 342 Madison Ave, New York 10017 (C).
King Features TV, 235 E. 45th St, New York 10017 (F).
King Screen Productions, 320 Aurora Ave, Seattle 98109 (CF).
Hal Kirn & Associates, 139 North Carolina Ave. S.E, Washington 20003 (CF).
The Harold Kirk Co, 1189 Warburton Ave, Yonkers, N.Y. 10701 (CF).
Klein-Barzman, 6022 Wilshire Blvd, Los Angeles 36 (CF).
William L. Klein Productions, 161 E. Grand Ave, Chicago 60611 (CF).
Kluge Film Productions Inc, 5350 C. Clinton Ave, Milwaukee 23 (C).
Knickerbocker Productions Inc, 1540 Broadway, New York 10036 (CF).
Krantz Films Inc, 250 West 57th St, New York 10019 (F).
Kutv Inc, 179 Social Hall Ave, Salt Lake City 84111 (CF).
Lakeside Television Co. Ltd, 19 West 44th St, New York 10036 (F).
Lance Productions Inc, 353 W. 57th St, New York 10019 (CF).
Lance Studios, 151 W. 46th St, New York 10036 (C).
Robert Larsen Productions Ltd, 2109 Broadway, Colorado Springs (C).
The Latin Sound, 365 West End Ave, New York 10024 (C).
Robert Lawrence Productions Inc, 445 Park Ave, New York 10022 (CF).
The Robert J. Leder Co. Inc, 501 Madison Ave, New York (F).
Gene Lester Productions, 12642 Venture Blvd, Studio City, Calif. 91604 (CF).
Jack Lieb Productions, 1230 W. Washington Blvd, Chicago 60607 (CF).
Lou Lilly Productions Inc, 1522 N. Van Ness, Hollywood 90028 (C).
Jack Lloyd, 8440 Sunset Blvd, Hollywood 90069 (CF).
Arthur Lodge Productions Inc, 333 W. 52nd St, New York 10019 (F).
Lodge Teleproduction Center, 3620 S. 27th St, Arlington, Virginia 22206 (CF).

U.S.A.

Roht Longenecker Agency, 8438 Melrose Pl, Los Angeles 90069 (C).
James Love Productions Inc, 550 Fifth Ave, New York 10036 (CF).
Lutheran Church in America, Commission on Press, Radio & TV, 231 Madison Ave, New York 10016 (F).
Lutheran Council in the U.S.A, Division of P.R, 315 Park Ave, New York (F).
Lutheran Television Productions, 210 N. Broadway, St. Louis 2 (F).

MCA TV, 445 Park Ave, New York 10022 (F).
MGM Television, 1350 Avenue of the Americas, New York 10019 (CF).
MPO Videotronics Inc, 222 E. 44th St, New York 10017 (CF).
Magic Circle Productions, 2711 West Ramsey St, Banning, Calif. 92220 (F).
Johnny Mann Inc, 13107 Ventura Blvd, Studio City, Calif.
Marathon International Productions Inc, 10 E. 49th St, New York 10017.
Mark Century Bales Corp, Hotel Warwick, 65 W. 54th St, New York 10022.
Marlomae Productions, 412 Produce Bank Bldg, Minneapolis 55403.
The Marshall Organization Inc, 750 3rd Ave, New York 10017.
Mason Enterprises, 133 N. Mansfield Ave, Los Angeles 90036.
Medallion TV Enterprises Inc, 8833 Sunset Blvd, Hollywood.
Media Features of America, 703 Market St, Room 113, Douglas.
Don Meier Productions Inc, 520 N. Michigan Ave, Suite 1216, Chicago 60611.
Bill Melendez Productions Inc, 429 North Larchmont Blvd, Los Angeles 90004.
Lee Mendelson Film Productions Inc, 1310 Howard Ave, Burlingame, Calif.
The Methodist Church, Television, Radio & Film Commission, 1525 McGavock St, Nashville 37203.
Metrovision Inc, 117 W. 48th St, New York 10036.
Warren Miller Productions Inc, 505Pier Ave, Hermosa Beach, Calif.
Mister Titan Inc, P.O. Box 2167 H, Hollywood, Fla.
Mizrachi Woman's Organization of America, 242 Park Ave, New York 10003.
Mode-Art Pictures, 1022 Forbes Ave, Pittsburgh 15219.
Modern Drama Productions Inc, 7th Floor Slater Office Bldg, Boston, Mass.
Mogubgub Ltd, 6 East 46th St, New York.
Monarch Productions Corp, 1082 Park Ave, New York 10028.
Moral Re-Armament Productions, 833 S. Flower St, Los Angeles 90017.
Murray Morgan Enterprises Inc, 517 Watkins Dr, Mineola, N.Y. 11501.
Nelson Morris Productions Inc, 11E 48th St, New York 10017.
Morton Productions, 119 West Hubbard St, Chicago.
Motion Picture Service Co, 125 Hyde St, San Francisco.
Motivating Commercials Inc, 143 W. 51st St, New York 10019.
Owen Murphy Productions Inc, 666 Fifth Ave, New York 10019.
Music Makers Inc, 65 West 54th St, New York 10019.

NBC Films Inc, 30 Rockefeller Plaza, New York 10020.
NBC Telesales, 30 Rockefeller Plaza, New York 10020 (C).
National Council of Churches, Broadcasting and Film Commission, 475 Riverside Dr, New York 10027 (F).
National Educational Television, 10 Columbus Circle, New York 10019 (F).
National Lecture Bureau, 104 So. Michigan, Chicago 60603 (F).
National Telefilm Associates Inc, 8530 Wilshire Blvd, Beverly Hills, Calif. (F).
Byron Nelson Golf, 20 N. Wacker Dr, Chicago 60606 (CF).
Newmark International, 2211 Broadway, New York 10024 (F).
Newspix Inc, 448 W. 56th St, New York 10019 (CF).
Oliver W. Nicoll Productions, 820 West End Ave, New York 10025 (F).
Fred A. Niles Communications Centers, 1058 W. Washington Blvd, Chicago 60607 (CF).
Northwestern Inc, Oll S. W. Hooker St, Portland 1, Ore. (CF).
North Woods Productions, Box 165, Brandon Vt. 05733 (CF).
Norwood Studios Inc, 926 New Jersey Ave, Washington 20001 (C).

Official Films Inc, 724 Fifth Ave, New York 10019 (F)
Olas Corp, 2800 Euclid Ave, Cleveland 44115 (F).
Omega Productions Inc, 1102 St. Matthew St, Montreal 25 (CF).
Orr Production Services Inc, 178 East 70th St, New York 10021 (F).

Pams Inc, 4141 Office Pkwy, Central Park Plaza, Dallas 75204 (F).
P/R Bcstg. Inc, 342 Madison Ave, New York 10017 (F).
Pacific Title & Art Studio, 6450 Santa Monica Blvd, Hollywood 38 (C).
Palamar Productions Inc, 313 Hempstead Ave, West Hempstead, N.Y. 11552.
Pantomime Pictures Inc, 3487 Chuega Blvd, Hollywood 90028 (C).
Lindsley Parsons Productions Inc, 4376 Sunset Dr, Hollywood 90027 (CF).
Pathe News Inc, 245 W. 55th St, New York 10019.
Peckham Productions Inc, 9 East 48th St, New York 10017 (CF).
Pepper Sound Studios Inc, 2076 Union Ave, Memphis 38104 (C).
Petersen Productions, 5959 Hollywood Blvd, Los Angeles (CF).
Phoenix Film Studios, 9255 Sunset Blvd, Los Angeles 90096 (F).
Playback Productions Ltd, P.O. Box 212, Mt. Kisco, New York 10549 (C).
Playhouse Pictures 1401 N. La Brea Ave, Hollywood 90028 (C).
Poole Productions Inc, 11-A Lawyers Bldg, Greenville, S.C. 29601 (CF).
Port au View Inc, 4204 Chuenga Blvd, North Hollywood, Calif. 91602 (F).
Prawde Productions, 7932 Orchid St, N.W. Washington (CF).
Premier Film & Recording Corp, 3033 Locust St, St. Louis (CF).
Producing Artists Inc, 17 E. 45th St, New York 10017 (CF).
Production Center Inc, 221 W. 26th St, New York 10001 (CF).
The Protestant Radio & Television Center, 1727 Clifton Rd. N.E, Atlanta 30329 (F).
Purcell Productions Inc, 236 W. 55th St, New York 10019 (CF).

U.S.A.

QM Productions, 1041 North Formosa Ave, Los Angeles 46 (F).
Quartet Films Inc, 5631 Hollywood Blvd, Hollywood 90028 (CF).

RKO General Productions, 1440 Broadway, New York 10018 (F).
RME Productions Inc, 100 East Broad St, Columbus, Ohio 43215 (C).
Radio Features Inc, 400 North Michigan Ave, Room 514, Chicago 60611 (C).
Radio Features of America, 820 West End Ave, New York 10025 (CF).
Radio & TV Roundup Productions, 111 Maplewood Ave, Maplewood, N.J. 07040 (F).
Rainbow Productions Ltd, 318 East 53rd St, New York (F).
The Water Reade Organization Inc, 241 E. 34th St, New York 10016 (F).
Recording Arts International Inc, P.O. Box 2801, Washington 20013 (CF).
Redlin Productions, 19116 Lanark, Reseda, Calif. (CF).
Roland Reed Productions Inc, 650 N. Bronson, Los Angeles 90004 (CF).
Reela Film Laboratories Inc, 65 N.W. 3rd St, Miami 33128 (C).
Resort Radio Productions, Brighton Towers, Suite 911, Atlantic City (CF).
Stuart Reynolds Productions, 9465 Wilshire Blvd, Beverly Hills, Calif. (F).
Riddle Video & Film Productions Inc, Suite 307, 507 Fifth Ave, New York 10017 (CF).
Riviera Productions, 6610 Selma Ave, Hollywood 90028 (CF).
Peter M. Roebeck & Co, 230 Park Ave, New York 10017 (F).
Robie Studios, Box 1, Noel, Mo, Greenwood (CF).
F. K. Rockett Productions Inc, 5451 Laurel Canyon Blvd, North Hollywood, Calif. 91607 (CF).
Roffman Associates, 675 West End Ave, New York 10025 (CF).
Rose-Magwood Productions Inc, 1414 Ave. of the Americas, New York (C).
Danny Rouzer Studio, 7022 Melrose Ave, Hollywood 90038 (CF).
Jack Russell & Assoc, 203 N. Wabash Ave, Chicago 60601 (F).

Sacred Heart Program Inc, 3900 Westminster Place, St. Louis 63108 (F).
The Salvation Army, 120-130 West 14th St, New York 10011 (F).
San Simeon Corp, 44 East Superior St, Chicago 61611 (F).
James L. Saphier Agency Inc, 9229 Sunset Blvd, Los Angeles (F).
Robert Saudek Associates Inc, 689 Fifth Ave, New York 10022 (F).
Savage-Friedman Inc, 151 East 50th St, New York 10022 (C).
Willis H. Schaefer, 3605 Alta Messa Dr, Studio City, Calif. (C).
Gerald Schnitzer Productions, 6063 Sunset Blvd, Hollywood 90028 (CF).
School Film Service, 549 W. 123rd St, New York 10027 (CF).
Walter Schwimmer Inc, 410 N. Michigan, Chicago, Ill. (CF).
Screen Entertainment Co, 4440 Lakeside Dr, Burbank, Calif. (F).
Screen Gems Inc, 711 Fifth Ave, New York 10022 (CF).
Scripps-Howard Broadc. Co, 200 Park Ave, New York 10017 (CF).
Selmur Productions Inc, 1313 North Vine St, Hollywood 90028 (F).
Sextant Inc, 663 Fifth Ave, New York 10022 (F).
Showbiz Inc, 412 Produce Bank Building, Minneapolis 55403 (CF).
Show Biz Productions, 143 Kennedy St. N.W, Washington 20011 (CF).
Showcorporation, 10 East 49th St, New York 10017 (F).
Signature Productions, 4204 Cahuenga Blvd, N. Hollywood, Calif. 91620 (CF).
Fletcher Smith Studios Inc, 259 S.W. 21st Terrace, Fort Lauderdale, Fla. (CF).
Walter Harrison Smith Associates Inc, 222 E. 44th St, New York 10017 (C).
Soundac Color Productions Inc, P.O. Box 2167, Hollywood, Fla. 33022 (CF).
Sound Productions Inc, Box 815, Gary, Ind. (F).
The Sound Service, Box 4557, Chicago 80 (CF).
Southern Baptist Convention, P.O. Box 12157, Fort Worth 76116 (F).
Spectra-Sound Inc, Recording Studios, 6110 Santa Monica Blvd, Hollywood 90038 (CF).
Sponsors Film Service, 421 W. 54th St, New York 10019 (CF).
Sportlite Films, 20 N. Wacker Dr, Chicago 60606 (CF).
Sport-Films Inc, 4035 S.W. 94th Ave, Portland, Ore 97225 (F).
Sports Network Inc, 530 Fifth Ave, New York 10036 (F).
Sports Telecasts Inc, 474 Thurston Rd, Rochester, N.Y. (CF).
Stage Door Studios, B-111 Hillside Manor, New Hyde Park, New York 11040 (F).
Wilber Stark Film & TV Productions, 25 W. 54th St, New York 10019 (F).
Stellart Productions Ltd, 1472 Cresent St, Montreal 25 (C).
Stockdale & Co, 200 E. First St, South Salt Lake City (C).
Mike Sokey Enterprises Inc, 1475 Deheny Dr, Hollywood 90069 (CF).
Storer Programs Inc, 338 So. Western Ave, Los Angeles 90005 (F).
Wilbur Streech Productions Inc, 135 W. 52nd St, New York 19 (C).
Dick Strout Inc, 1717 North Highland Ave, First Federal Bldg, Suite 410, Hollywood 90028 (F).
Sturgis-Grant Productions Inc, 328 E. 44th St, New York 10017 (CF).
Sun Dial Films Inc, 318 East 45th St, New York 10017 (CF).
Swift-Chaplin Productions Inc, 1136 North Highland Ave, Hollywood 90038 (C).

TRAV-Television, 341 Ponce de Leon Ave, N.E. Atlanta 30308 (F).
Take Ten Inc, 211 E. Chicago Ave, Chicago 61600 (CF).
Technisonic Studios Inc, 1201 Brentwood Blvd, St. Louis 63117 (CF).
Telecine Film Studios Inc, 100 S. North-West Highway, Park Ridge, Ill. 60068 (CF).
Teledynamics Inc, 165 West 46th St, New York 10036 (F).
Telemated Motion Pictures, 8 W. 40th St, New York 10018 (C).
Telenews, 450 W. 56th St, New York 10019 (F).
Teletape Inc, 179 Social Hall Ave, Salt Lake City 84111 (CF).
Television & Radio Features of America, 820 West End Ave, New York 10025 (CF).
Television Features of America, 820 West End Ave, New York 10025 (CF).
Television Screen Productions, 25 West 45th St, New York 10036 (C).

U.S.A.

Telstar Productions & Publications Inc, P.O. Box 388, Westport, Conn. (F).
Terrytoons, 38 Centre Ave, New Rochelle, N.Y. (CF).
Thoroughbred Productions, 1614 Trevillian Way, Louisville (F).
3C International Ltd, 527 Madison Ave, New York (F).
Toddy Pictures Company, P.O. Box 150, Atlanta 30301 (CF).
Trans-Lux Television Corp, 625 Madison Ave, New York 10022 (F).
TR Productions Inc, 1031 Commonwealth Ave, Boston 02215 (CF).
Triangle Program Sales, 717 Fifth Ave, New York 10022 (F).
TV 111 Inc, 1019 North Cole Ave, Hollywood 38 (F).
20th Century-Fox Television Inc, 444 West 56th St, New York 10019 (F).

UBS Corp, 17172 Livernois, Detroit 48221 (F).
United Artists Television Inc, 729 Seventh Ave, New York 10019 (F).
United Film & Recording Studios, 161 East Grand Ave, Chicago 60611 (CF).
United Nations, The United Presbyterian Church in the USA, Division of Mass Media, 475 Riverside Dr, Room 1935, New York 10027 (CF).
United Recording Corp, 6050 Sunset Blvd, Hollywood 90028 (CF).
U.S. Army Command Info Unit, Office Chief of Information, The Pentagon, Washington 20310 (F).
U.S. Savings Bonds Division, Treasury Department, 1111 20th St, N.W. Washington 20226 (C).
Universal Television, 100 Universal City Plaza, Universal City, Calif. 91608 (F).

VPI of Atlantia, 1140 Peachtree St, Atlanta 40041 (C).
VPI of California Inc, 1515 No. Western Ave, Hollywood (C).
VPI of Illinois, 450 E. Ohio St, Chicago 60611 (C).
VPI International Inc, VPI Productions Inc, 321 West 44th St, New York 10036 (C).
Thomas J. Valentino Inc, 150 W. 46th St, New York 10036 (CF).
Jack Van Coevering Productions, 20 N. Wacker Dr, Chicago 60606 (CF).
Van Praag Productions Inc, 1600 Broadway, New York 10019 (CF).
Vavin Inc, 236 E. 46th St, New York 17 (F).
Versatile Television Productions Inc, 324 Broadway, Cape Girardeau, Mo. Edgewater (CF).
Viafilm Ltd, 225 East 46th St, New York 10017 (C).
Harvey Victor Films Ltd, 923 Fifth Ave, New York 10021 (F).
Videocraft International Ltd, 116 E. 30th St, New York 10016 (CF).
Video Films Inc, 1004 E. Jefferson Ave, Detroit 7 (C).
Video Pictures Inc, 321 W. 44th St, New York 10036 (C).
Videotape Center, 101 West 67th St, New York 10023 (CF).
Video Varieties Inc, 2 Gateway Center, Pittsburgh 22 (CF).
Viking Films Inc, 850 Seventh Ave, New York 10019 (F).

WBC Productions Inc, 240 West 44th St, New York (F).
WCD Inc, 1600 Broadway, New York 10019 (CF).
WGN Continental Productions Company, 2501 Bradley Place, Chicago 60618 (CF).
Warner Bros-Seven Arts Inc, 200 Park Ave, New York 10017 (F).
Adrian Weiss Productions, 5912 West Olympic Blvd, Los Angeles 90036 (CF).
Louis Weiss & Co, 5912 West Olympic Blvd, Los Angeles 90036 (F).
Western Cine Service Inc, 312 So. Pearl St, Denver (CF).
Wolper Productions Inc, 8544 Sunset Blvd, Los Angeles (CF).
Wonderland Productions, 760 Cahuenga Blvd, Hollywood 90038 (CF).
World Horizon Films, Maryknoll, New York 10545 (F).
Carter Wright Enterprises, 6533 Hollywood Blvd, Hollywood 90028 (CF).
Wurtele Film Productions, P.O. Box 504, Orlando, Fla. 32802 (C).

Marvin Young Assoc, 4432 Farmdale Ave, North Hollywood 91602 (CF).

Zapel Studios Inc, 615 N. Wabash Ave, Chicago 60611 (CF).
Zourary TV Film Productions, 333 W. 52nd St, New York 10019 (F).

Attention:

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1969 edition

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LONG AND MEDIUM WAVE STATIONS

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(exc. for North America)

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EUROPE- AFRICA, NEAR EAST

Abbreviations:
AFN = American Forces Network; AFRTS = American Forces Radio & TV Service; BR = Bayerischer Rundfunk; BW = Berliner Welle; CBC = Cyprus Broadc. Corpo; DLF = Deutschlandfunk; DS = Deutschlandsender; EN = Emissora Nacional; FBS = Forces Broadc. Sce; HR = Hessischer Rundfunk; LV = La Voz; NBI = National Broadc. Institute; NDR = Norddeutscher Rundfunk; RBI = Radio Berlin International; RCP = Radio Clube Portugues; RFE = Radio Free Europe; Rfk = Rundfunk; RIAS = Rundfunk im Amerikanischen Sektor; RMC = Radio Monte Carlo; SDR = Süddeutscher Rundfunk; SFB = Sender Freies Berlin; SWF = Südwestfunk; SYBS = South Yemeni Broadc. Sce; TWR = Trans World Radio; WDR = Westdeutscher Rundfunk; VOA = Voice of America nom = nominal frequency; v = varying in frequency; number or letter indicate network.

kHz	kW	Call	Country	Station/Location
151	50		USSR	Moscow 1
	70		Germany W	Donebach (DLF)
155	10		Norway	Tromsø
	1200		Rumania	Brasov
	50		USSR	Moscow 1
164	1100		France	Allouis
173	500		USSR	Moscow 2
180	1000		Germany W	Saarlouis-Felsberg(Europe 1)
182	10		Sweden	Luleå
	120	TAR	Turkey	Ankara
185	750		Germany E	Oranienburg-Zehlendorf (DS)
191	600		Sweden	Motala
	50		USSR	Tbilisi
200	400		Great Britain	Droitwich (Radio 2)
	100		USSR	Leningrad
	100			Kazan
209	100		Iceland	Reykjavik
	20			Eidar
	150		USSR	Kiev 1
218	1200		Monaco	Monte-Carlo
	200		Norway	Oslo
	50		USSR	Baku
227	500		Poland	Warsaw (Raszyn)
233	1100		Luxembourg	Luxembourg (Junglinster)
236	100		USSR	Leningrad 1
245	150		Denmark	Kalundborg 1
	100		Turkey	Erzurum
254	200		Finland	Lahti
	100		USSR	Erevan Ulyanovsk
263	100		Germany E	Berlin-Königswusterhausen (R. Volga)
	150		USSR	Moscow 1
272	400		Czechoslovakia	Topolná (CS 1)
281	100		USSR	Minsk 2
340	100		USSR	Saratov
362	50		USSR	Yerevan
385	50		USSR	Kharkov
388	20		USSR	Moscow 2
400	50		USSR	Minsk 2
433	10		Finland	Oulu
520	10		Austria	Innsbruck-Aldrans 1
	10			Lienz 1/Liezen 1
	0.05			Bludenz/Murau
	1		Finland	Joensuu
	2		Germany W	Braunschweig 1 (NDR)
	0.2			3 low powers 1 (BR)
	0.25		Norway	Røros
529	220		Germany E	Schwerin (R. DDR)
	250		Switzerland	Beromünster
			USSR	Cheboxáry/Tula
	300		Algeria	Ain Beida
539	0.05		France	Bayonne 2
	135		Hungary	Budapest-Lakihegy (Kossuth R.)
	1		Kuwait	Kuwait
548	800		Germany W	Braunschweig-Königslutter (DLF)
	20			Bad Dürrheim (DLF)
	50		Spain	Oviedo (RNE)
	150		USSR	Odessa
	300		Algeria	Oran 1
	20		Zambia	Kitwe (General Sce.)
	1		Saudi Arabia	Riyadh
557	100		Finland	Helsinki 1
	50		Germany E	Greifswald (R. DDR)
	1		Portugal	Faro/Guarda
	5		Rumania	Bucuresti (Kherastrau)
	150		Switzerland	Monte Ceneri
	10		USSR	Volgograd
	1		Algeria	Touggourt
	10		S. Africa	Cape Town (Afrikaans)
	50		UAR Egypt	Cairo-Abu Zaabal 3
566	0.1		Austria	Feistritz 2
	0.05			5 low powers 2
566	100/20		Germany W	Berlin (SFB)
	100		Ireland	Athlone
	25		Italy	Bologna/Caltanisetta 1
	5			Salento 1
	5		S. Africa	Durban (English)
	100		Syria	Homs
575	120		Germany E	Leipzig-Wiederau (R. DDR)
	300		Germany W	Stuttgart-Mühlacker 1 (SDR)
	100		USSR	Riga 1
	5		S. Africa	Johannesburg (Comm.)
	50	4XB36	Israel	Tel Aviv
	1		Saudi Arabia	Riyadh
580	50		Iran	Teheran 1
584	150		Austria	Vienna 1
	25			Klagenfurt 1
	10			Salzburg 1
	0.05			Mayrhofen
	5		Faroe Isl.	Thorshavn
	4		France	Paris 3
	200		Spain	Madrid-Majadahonda (RNE)
			USSR	Ijevsk
	2		Rhodesia	Salisbury
			UAR Egypt	Cairo
	50		Uganda	Kampala
593	200		Bulgaria	Soña-Pleven
	150/400		Germany W	Frankfurt-Weiskirchen (HR)
	20			Hoher-Meissner (HR)
	150		Sweden	Sundsvall
	10		USSR	Ordzonikidze
	100		Morocco	Oujda 1
	10/250		Nigeria	Kaduna (RTV Kaduna)
	5		S. Africa	Bloemfontein (Afrikaans)
600	2		Tanzania	Zanzibar (R. Tanzania)
	1200		Saudi Arabia	Riyadh
602	150/250		France	Lyon-Tramoyes
	20		Germany E	Karl-Marx Stadt (Berliner Rfk)
	1		Malawi	Lilongwe
	10		Nigeria	Abafon (WNRS)
	2		S. Africa	East London (Comm.)
	5		Tunisia	Sfax 2
	50		UAR Egypt	Beni Suef
	20		Cyprus	Nicosia (CBC)
	2		Syria	Damascus
610	2		Bahrain	Manama
611	250		Germany E	Berlin (Berliner Rfk)
	10		Germany W	Grafenwöhr/Kaiserslautern Nürnberg (AFN)
	20		USSR	Krasnodar
	100		USSR	Petrozavodsk
	100		Yugoslavia	Sarajevo
	100		Kenya	Nairobi
	140		Morocco	Sebaa-Aioun 1
	2		Rhodesia	Gwelo
620	150		Belgium	Brussels (Wavre 1)
	10		Portugal	Villa Real (EN)
	500		Nigeria	Enugu
	100		Canary Isl	Santa Cruz de Tenerife (RNE)
	5		S. Africa	Grahamstown (English)
	450		UAR Egypt	Batra
629	25		Austria	Aldrans/Lauterach 2
	1			Lienz 2
	20		Germany E	Erfurt (R. DDR)
	100		Norway	Vigra
	30		Rumania	Timisoara 2
	10	ELBC	Liberia	Monrovia
	300/600		Tunisia	Tunis (Djédeida A)
	2		Zambia	Lusaka (Home Service)
	10		Cyprus	Radio Bayrak
630	0.25		Iran	Teheran (AFRTS)
638	150		Czechoslovakia	Liblice
	100		Spain	La Coruña (RNE)
	5		Nigeria	Benin City (NBC Midwest)

kHz	kW	Call	Country	Station/Location
638	5		S. Africa	Johannesburg (English)
	2		Uganda	Mbale
	100		Cyprus	Limassol (BBC Relay)
645	50	EAJ 203	Sahara (Sp)	El Aaiún (V)
	100	EQR 18	Iran	Tabriz (nom. 641kHz)
647	150		Great Britain	Daventry (BBC European Sce./Radio 3)
	150			Crowborough (Radio 3)
	4			Redmoss (Radio 3)
	2			Edinburgh/Glasgow
				Newcastle (Radio 3)
	100		USSR	Simferopol
	50		Saudi Arabia	Jeddah (V)
	300		Turkey	Cukurova (TRT)
650	0.3	CSB82	Azores	Lajes-Terceira (Port. Air Force)
656	20		Germany E	Potsdam (Berliner Rfk)
	100		Italy	Firenze/Napoli 1
	35			Torino 1
	25			Bolzano/Venezia 1
	150		USSR	Murmansk
				Grozny
	10		Nigeria	Ibadan (WNRS)
	10		S. Africa	Cape Town (English)
	100		Tanzania	Dar es Salaam
	100	4XB47	Israel	Tel Aviv
660	20		Afghanistan	Kabul (Jakatut)
665	300		Germany W	Bodensee/Rohrdorf (SWF)
	15		Greece	Athens 3
	5		Iceland	Höfn
	135		Portugal	Lisbon 1
	100		USSR	Kaunas/Vilnius
	5		S. Africa	Pietermaritzburg
	8		Reunion	St. Denis
	100		Syria	Damascus (Sabboura)
674	0.05		Austria	9 low powers 2
	150		France	Marseille 1
	10		Norway	Bodø
	100		USSR	Tsjernovtsy
	100		Libya	Benghazi (El Gawarsha)
	5		S. Africa	Bloemfontein (English)
	10		Qatar	Doha (Qatar Radio)
687	200		Israel	Jerusalem (Ramallah)
690	2		Rhodesia	Bulawayo
	100		Iran	Rasht
693	100		Germany W	Berlin-Britz (RIAS)
	40			Hof-Saale (RIAS)
	250		Spain	Sevilla (RNE)
	400		Yugoslavia	Belgrade
	10		Mauritius	Curepipe (MBC)
	2		S. Africa	East London (English)
700	10		Iran	Mashad
702	250		Germany E	Suhl-Wachenbrunn (DS)
	150		Great Britain	Moorside Edge (Radio 4)
	2			Cromer/Whitehaven (Radio 4)
	1		Portugal	Viseu (EN)
	100		USSR	Ufa
	4		Algeria	Algiers 3
	1			Bouira
	1		Malawi	Karonga
	5		S. Africa	Durban (Afrikaans)
	20		Cyprus	Nicosia-Athalassa (CBC)
710	280		Andorra	Andorre-la-Vieille (R. Andorra)
	100		Czechoslovakia	Banská Bystrica
	30			Zbraslav
	3			Ustí nad Labem
	10		Germany W	Flensburg (NDR)
	2			Aurich/Lingen (NDR)
	5			Aachen-Stolberg 1 (WDR)
	2			Herford/Siegen 1 (WDR)
	20		Norway	Finnmark
	140		Morocco	Sebaa-Aioun 2
	5		S. Africa	Grahamstown (Afrikaans)
	150	TAW	Turkey	Istanbul (TRT)
714	100		UAR Egypt	Asyut 2 (V; nom. 710kHz)
	150		France	Rennes 1
	150		USSR	Donetsk/Tallinn
	10	ELWA	Liberia	Monrovia
	2		Rhodesia	Gwelo
	1	4XB20	Israel	Jerusalem
719	150		Germany W	München-Holzkirchen (RFE)
	50		Portugal	Norte
	150		Sweden	Ostersund
	5		S. Africa	Johannesburg (Afrikaans)
	100		Tunisia	Sfax A
	100		Cyprus	Limassol (BBC Relay)
	2		Syria	Aleppo (Sarakeb)
724	50		Saudi Arabia	Jeddah
	25		Austria	Klagenfurt 2
	250		Germany E	Schwerin-Wöbbelin (DS)
	150		Greece	Athens (Nat.)
	10		S. Africa	Cape Town (Comm.)
	10		Uganda	Kampala
729	40		Germany W	Hof-Saale (RIAS)
	5		Iceland	Akureyri
	300		Poland	Poznan

kHz	kW	Call	Country	Station/Location
737	250		Spain	Barcelona (RNE)
	20		USSR	Moscow 2
	50		Mozambique	Lourenço Marques A
			UAR Egypt	Cairo
	200	4XB34	Israel	Tel Aviv
	1		Trucial Amirates	Sharjah (Voice of the Coast)
746	30		Bulgaria	Plovdiv
	20		Germany E	Cottbus (R. DDR)
	120		Holland	Hilversum-Lopik 1
	1		Algeria	Tlemcen
	100		Kenya	Nairobi
	0.1		Liberia	Buchanan (Radio Lamco)
	100		Syria	Aleppo (Sarakeb)
755	20		Finland	Kuopio
	200		Germany W	Braunschweig/Königslutter (DLF)
	40			Ravensburg (DLF)
	135		Portugal	Lisbon 2
	135		Rumania	Timisoara 1
	50		South Yemen	Aden/Hiswa (SYBS)
760	5		São Tomé	São Tomé (Radio Clube de) V
	300		Iraq	Hurriyah
764	250		Switzerland	Sottens
	10		USSR	Odessa
	10		Malawi	Blantyre (Limbe)
	5		S. Africa	Pietermaritzburg (English)
	200		Sénégal	Dakar 2
			Sudan	Omdurman
773	1		Austria	Salzburg 2
	0.1			Leoben
	0.05			14 low powers
	30		Bulgaria	Sofia (Stolnik)
	20		Spain	San Sebastian (RNE)
	150		Sweden	Stockholm
	2			Malmberget
	0.05		Switzerland	St. Gallen/St. Lambrecht
	0.05		Yugoslavia	Sljeme
	20		USSR	Voronej
	500		UAR Egypt	Cairo/Abu Zaabal 1
777	100		Iran	Zahedan
782	250		Germany E	Burg (DS)
	100	CSB9	Portugal	Miramar (RCP)
	100		USSR	Kiev 2
	1	HV2	Vatican State	Vatican City
	2		Yugoslavia	Rijeka/Sisak/Split 2
	5		S. Africa	Bloemfontein (Comm.)
	200		Syria	Tartus
791	100		France	Limoges 1
	50		Greece	Thessaloniki (VOA/NBI)
			USSR	Astrakhan
	20		Kenya	Mombasa
	1		Rhodesia	Gatooma
	2		S. Africa	East London (Afrikaans)
800	100		Germany W	Nürnberg (Dillberg) 1 (BR)
	1	CSB33	Portugal	Regua (R. Alto Douro)
	20	EAJ7	Spain	Madrid (R. Madrid)
	100		USSR	Leningrad 2
	5		S. Africa	Durban (Comm)
	200		Jordan	Amman
809	150		Great Britain	Crowborough (BBC European Sce.)
	100			Burghead/Westerglen (Radio 4)
	5			Redmoss (Radio 4)
	2			Dumfries (Radio 4)
	5	EAJ5	Spain	Sevilla (R. Sevilla)
	10		USSR	Kuibyshev
	135		Yugoslavia	Skopje
	5		S. Africa	Grahamstown (Comm.)
818	300		Andorra	Andorre-la-Vieille (Sud-Radio)
	25		Italy	Trieste 1
	300		Poland	Warsaw (Mokotov) 2
	1		Morocco	Casablanca 1
	450		UAR Egypt	Batra 2
	2		Zambia	Lusaka (General Service)
827	100		Bulgaria	Sofia (Vakarel)
	40		Germany W	Freiburg (SWF)
	3			Kaiserslautern (SWF)
	1.5			Baden-Baden (SWF)
	1			Trier (SWF)
	0.5			Koblenz (SWF)
	5	EAJ1	Spain	Barcelona (R. Barcelona)
	20		USSR	Gorkij
	100		Morocco	Oujda 2
	1			Rabat 1
	5		S. Africa	Johannesburg (English)
830	1		Angola	Luanda (R. Clube de Angola)
833	1		Libya	Benghazi (BFBS)
836	1	CSA97	Azores	Ponta Delgada, San Miguel(EN)
	10		Finland	Ylivieska
	150		France	Nancy 1
	2	EFE4	Spain	Palencia (La Voz de Palencia)
	5	ECS5		Granada (La Voz de Granada)
	5	EFJ51		Huelva (La Voz de Huelva)

kHz	kW	Call	Country	Station/Location
836	20		USSR	Kharkov/Vinnitsa
	1.25		Tanzania	Dar es Salaam
	100		Lebanon	Beirut
845	150		Italy	Roma 2
	10		USSR	Elistá/Kazan
	5		S. Africa	Pietermaritzburg (Comm.)
	1	4XB63	Israel	Safad
850	0.02		Turkey	Adana (AFRTS)
854	100		Germany W	Berlin-Britz (RIAS)
	150		Rumania	Bucuresti (Tinchebesti)
	125		Spain	Murcia (RNE)
	0.05		Algeria	Setif
	100		Ethiopia	Harrar
	5		Jordan	Amman
855	1		Rhodesia	Fort Victoria
863	30		Bulgaria	Blagoevgrad
	250		France	Paris 1
	100		USSR	Yerevan
	5		S. Africa	Pietersburg (Afrikaans)
	10		Syria	Damascus
872	150		Germany W	Frankfurt/Weiskirchen (AFN)
	36		Hungary	Budapest/Lakihegy (Petöfi R.)
	20	EAJ101	Spain	Zaragoza (R. Zaragoza)
	150		USSR	Moscow 2 + 3
	10	EFJ57	Canary Isl.	Santa Cruz de Tenerife (R. Juventud)
	100		Ethiopia	Addis Ababa
	50		UAR Egypt	Cairo/Abu Zaabal
881	100		Germany E	Berlin-Königswusterhausen (R. DDR)
	100		Great Britain	Washford (Radio 4)
	10			Penmon (Radio 4)
	5			Towyn (Radio 4)
	2			Wrexham (Radio 4)
	20		USSR	Stavropol
	100		Yugoslavia	Titograd
	0.05			Slavonski Brod
	10		Swaziland	Mbabane (R. Swaziland)
	0.05		Israel	Bet Hilel
	10		Yemen	Sanaa
890	20		Austria	Linz 2
	20		Norway	Bergen/Kristianstad/Trøndelag
	100		USSR	Uzhgorod
	200		Algeria	Algiers 2
	2		Rhodesia	Salisbury
	7.5		Cyprus	Limassol (BFBS)
	100		Saudi Arabia	Damman
899	150		Italy	Milano 1
			USSR	Ioshkar/Olá
	1		Yugoslavia	Vukovar
	2		Lesotho	Maseru (Home Service)
	1		Malawi	Ft. Johnstone
908	250		Germany E	Burg (Deutsche Freiheitssender)
	140		Great Britain	London/Brookmans Park (Radio 4)
	7		Rumania	Miercurea Ciuc
	1	CR6RU	Angola	Carmona (R. Clube do Uige)
	200		Iraq	Thourah
909	1		Iran	Rezaieh
917	3.5		Germany E	Reichenbach (Berliner Rfk)
	12	EAJ2	Spain	Madrid (R. España)
	50		USSR	Makhatchkala
	135		Yugoslavia	Ljubljana 1
	5		Morocco	Tetuan 3
	50		Mozambique	Lourenço Marques B
	2		Cyprus	Paphos-Coral Bay (CBC)
926	150		Belgium	Brussels 2
	10		USSR	Ivanovo
	10		Yugoslavia	Nis
	100	TAZ	Turkey	Izmir (TRT)
	10		UAR Egypt	Cairo (V)
935	250		Germany E	Burg (Deutsche Soldatensender)
	10		Germany W	Berlin (AFN)
	300		USSR	Lvov
	100		Morocco	Agadir 1
	0.25		Mozambique	Quelimane
944	0.05		Austria	Unzmarkt 1
	100		France	Toulouse 1
	5		Greece	Larissa (FBS)
	100	RV12	USSR	Rostov-na-Donu
	50		Ethiopia	Asmara
953	100		Czechoslovakia	Brno (Dobrochev)
	30			Plzen (Prestice)
	3			Kosice
	20	EAJ29	Spain	Madrid (R. Intercontinental)
	20	EAJ50	Canary Isl.	Las Palmas (R. Las Palmas)
	5		Kenya	Kisumu
	0.1		Liberia	Nimba (R. Lamco)
958	60		Syria	Deir-el-Zor (nom. 962kHz)
962	0.05		Austria	10 low powers 1
	100		Finland	Turku 1
	5		France	Paris (Educational)
	0.05		Switzerland	Prutz

kHz	kW	Call	Country	Station/Location
962	0.25		S. Africa	Kimberley (Comm.)
	100		Tunisia	Tunis (Djédeida) 2
963	5		Turkey	Istanbul 2 (V)
971	300		Germany W	Hamburg (NDR)
	40			Hannover/Oldenburg (NDR)
	5			Göttingen (NDR)
	5			Bonn 1 (WDR)
	3			Kleve 1 (WDR)
	150		USSR	Smolensk
	20			Kalinin
	2		Botswana Rep.	Gaberones (R. Botswana)
	1		Morocco	Marrakesh 1
	5		UAR Egypt	Cairo
980	10		Italy	Trieste
	150		Sweden	Gothenburg
	200		Algeria	Algiers 1
	1		Rhodesia	Umtali
	5		UAR Egypt	Asyut
985	100		Iran	Kermanshah
989	300		Germany W	Berlin-Britz (RIAS)
	50		Spain	Madrid-Majadahonda (R. Peninsular)
	1	ETLF	Ethiopia	Addis Ababa (V)
	5		S. Africa	Pietersburg (Comm.)
	10		Lebanon	Beirut
990	1		Libya	Tripoli-Wheelus Field (AFRTS)
998	10		Germany W	Heidelberg-Dossenheim 1 (SDR)
	0.2			Buchen-Walldürn 1 (SDR)
	100		USSR	Kichinev
	10	EAJ202	Sahara (Spanish)	Villa Cisneros
1007	50		Greece	Patras
	120		Holland	Hilversum-Lopik 2
	10		Spain	Malaga (R. Peninsular)
	150		Yugoslavia	Belgrade 3
1010	1	CR6RB	Angola	Luanda (R. Ecclesia)
1016			Germany E	Warnmünde (R.DDR Ferienwelle)
	300		Germany W	Mainz-Wolfsheim (SWF)
	100		USSR	Baku
	1		Algeria	Batna
	1		Morocco	Tangier 2
1025	100		Austria	Dobl/Kronstorf 1
	10			Lauterach 1
	5			Mariapfarr 1
	0.05			9 low powers 1
	5	EAJ8	Spain	San Sebastián (R. San Sebastián)
	5	ECS2		Badajoz (R. Badajoz)
	5	EFJ15		Barcelona (La Voz de Cataluña)
	1		Morocco	Casablanca 2/Rabat 2/Safi 1
	1.25		Tanzania	Dar es Salaam
	—		UAR Egypt	Cairo
	100		Israel	Tel Aviv
1033	2		Turkey	Izmir
1034	1		Germany W	Karlsruhe (AFN)
	0.25			2 low powers (AFN)
	50		Italy	Milano 2
	25			Napoli/Venezia 2
	10			Genua 2
	5			Pescara/San Remo 2
	1			Caltanisetta 2
	50	CSB2	Portugal	Lisbon (RCP)
	100		USSR	Tallinn 1
			S. Africa	Johannesburg (English)
1043	250		Germany E	Dresden-Wilsdruff (R. DDR)
	5		Greece	Thessaloniki 2
	100		USSR	Tbilisi
	25		Morocco	Sebaa Aioun 3
	2		S. Africa	Port Elizabeth (Afrikaans)
1050	1	CQM	Guinea (Portuguese)	Bissau
	10		Iran	Shiraz
1052	0.05		Austria	8 low powers 1
	0.05			Neunkirchen 2
	20		Germany E	Suhl (R. DDR)
	—			Puttbus (R. DDR Ferienwelle)
	120		Great Britain	Start Point (Radio 4)
	2			Barnstaple (Radio 4)
	50		Rumania	Bacau
	50		Libya	Tripoli (LBS)
1058	20		Morocco	Tetuan 1 (V)
1060	—		UAR Egypt	Cairo
1061	60		Denmark	Kalundborg 2
	10		Italy	Cagliari 1
	2			Udine/Verona 1
	1			Livorno 1
	50		Portugal	Norte
			USSR	Saransk
1063	2		Turkey	Ankara 2
1070	100		France	Paris 2
	—		Greece	Mesolongion (NBI)
	100		USSR	Dnjepropetrovsk
	0.25		S. Africa	Kimberley (English)
	20		Zambia	Kitwe (Home Service)
1079	20		Germany E	Plauen (Berliner Rfk)

kHz	kW	Call	Country	Station/Location
1079	100		Germany W	Bremen (Hansawelle/ R. Bremen)
	5			Bremerhaven (Hansawelle)
	60		Poland	Katowice
	25		Spain	Valencia (R. Peninsular)
	6		Yugoslavia	Koper
	1		Algeria	Souk Ahras
	5		Mozambique	Lourenço Marques D
	5		UAR Egypt	Luxor/Minia 1
1088	100		Albania	Tirana
	0.05		Austria	3 low powers 1
	150		Great Britain	Droitwich (Radio 4)
	7.5			Postwick/Norwich (Radio 4)
	20		USSR	Perm
	100	CR6RZ	Angola	Luanda (Emissora Oficial)
	20		Nigeria	Lagos (NBC National)
1090	1		Iran	Kerman
1095			Saudi Arabia	Dhahran (Aramco radio)
1097	180		Czechoslovakia	Bratislava (Kostolany)
	2	ECS12	Spain	Cabra (R. Atalaya/Voz de Cordoba)
	20	EFE14		Madrid (La Voz de Madrid)
	5	EFE23		San Sebastian (La Voz de Guipuzcoa)
	2	EFJ41		Sama de Langreo (Radio Juventud)
	20	ECS4	Canary Isl.	Las Palmas (R. Atlantico)
	2		S. Africa	Pretoria (Afrikaans)
	1	4XB64	Israel	Haifa
1100	10		Iran	Isfahan
1106	100		Germany W	Munich (AFN)
	100		USSR	Vilnius 2
	2	EAJ12	Spain	Alcoy (R. Alcoy)
	2	EAJ22		Huesca (R. Huesca)
	2	EAJ26		Antequera (R. Antequera)
	2	EAJ35		Barcelona (R. Panadés)
	2	EAJ37		Linares (R. Linares)
	2	EAJ41		La Coruña (R. Coruña)
	2	EAJ51		Manresa (R. Manresa)
	2	EAJ52		Badajoz (R. Extremadura)
	2	EAJ56		Salamanca (R. Salamanca)
	3	EAJ57		Orense (R. Orense)
	2	EAJ62		Vitoria (R. Vitoria)
	2	EAJ63		León (R. León)
	5		Cameroon	Douala
	0.5		Kenya	Nyeri
	2	EAJ46	Morocco	Ceuta (Sp. Enclave)
1115	50		Italy	Bari 2
	60			Bologna 2
	25			Pisa 2
	6			Trieste 2
	2			Aosta 2
	1		Norway	Bø/Namsos/Notodden
	0.25			4 low powers
	0.02			Mo i Rana
	20		USSR	Kaliningrad/Moscow
	5		Angola	S. Salvador (Em. Regional)
	10		Morocco	Tangier 1
	5		S. Africa	Pietersburg (English)
	—		UAR Egypt	Cairo
1124	0.1		Austria	3 low powers 2
	0.05			11 low powers 2
	10		Belgium	Houdeng/Marche (Bruxelles 4)
	10		Bulgaria	Varna
	7		Rumania	Oradea
	10	EAJ15	Spain	Barcelona (R. España)
	0.05		Switzerland	Obdach
	20		USSR	Leningrad 3 (Vyborg)
	1		Libya	Beida
	1		Reunion	St. Pierre (ORTF)
	—		Israel	—
1133	0.02		Iceland	Alftafjördur
	15	ECS3	Spain	Avila (R. Gredos)
	5	ECS8		Sevilla (LV del Guadalquivir)
	5	ECS9		Jaén (LV de Jaén)
	5	ECS13		Ciudad Real (LV de Cuidad Real)
	3	ECS17		Monforte (LV de Lugo)
	2	EFE5		Léon (LV de Léon)
	5	EFE6		Caceres (LV de Extremadura)
	1	EFE19		Castellon (LV de Castellon)
	5	EFE22		Oviedo (LV de Principado)
	5	EFE31		Vigo (LV de Vigo)
	5	EFE33		Tarragona (LV del Mediterraneo)
	5	EFE57		Pamplona (LV de Navarra)
	2	EFJ5		Cádiz (Radio Juventud)
	2	EFJ19		Murcia (Radio Juventud)
	2	EFJ25		Almeria (Radio Juventud)
	2	EFJ29		Ponferrada (Radio Juventud)
	2	EFJ43		Bilbao (Radio Juventud)
	5	EFJ46		Zaragoza (Radio Juventud)
	2	EFJ50		Calahorra (Radio Juventud)
	2	EFJ52		Burgos (Radio Juventud)
	5	EFJ56		Málaga (Radio Juventud)
	135		Yugoslavia	Zagreb 1
	50			Split 1

kHz	kW	Call	Country	Station/Location
1133	20		Yugoslavia	Rijeka 1
	2			Dubrovnik/Osijek/Zadar 1
	0.5		Kenya	Nakuru
	10		Kuwait	Kuwait
1140	5		Iran	Abadan
1142	0.05		Austria	13 low powers 1
	10		Germany W	Stuttgart/Hirschlanden (AFN)
	5			Bremerhaven (AFN)
	1			Ulm (AFN)
	0.25			4 low powers (AFN)
	20		Greece	Athens (FBS)
	0.05		Switzerland	St. Gallen
	50		USSR	Riga
	5		UAR Egypt	Sohag 1
	1		Zambia	Livingstone (Home Service)
1151	0.1		Austria	Judenburg 1
	100		Great Britain	Stagshaw (Radio 4)
	2			Scarborough (Radio 4)
	0.1			Whitehaven (Radio 4)
	50		Rumania	Cluj
	1		Morocco	Marrakech 2
1155	50		UAR Egypt	Beni Suef 2 (V)
1160	30		Bulgaria	Kardzali/Kolarovgrad
	150		France	Strasbourg 1
	—			Royan (Inter-Royan)
	1	CR6RD	Angola	Nova Lisboa (R. Clube do Huambo)
	1		Mozambique	Lourenço Marques C
1165	2		Turkey	Kars (V)
1168	1		Burundi	Bujumbura (LV de la Revolution)
1169	300		Germany E	Leipzig (R. Moscow Relay)
	10		Germany W	Heilbronn-Obereisesheim (SDR)
	5			Ulm-Jungingen (SDR)
	10		Greece	Thessaloniki
	10	CSB30	Portugal	Porto (Radio Renascenca)
	50		USSR	Odessa
	20		Yugoslavia	Koper-Beli Kriz (R. Koper/ Capodistria)
	4		Afar & Issa	Djibouti (ORTF)
	1	4XB23	Israel	Jerusalem
1178	10		Malta	Delimara Point (BBC relay)
	20		Spain	Barcelona (R. Peninsular)
	100		Sweden	Hörby
	2		S. Africa	Port Elizabeth (Comm)
	10		UAR	Aswan/Quena 1
	2		Turkey	Van (V)
1186	0.06		Greece	Megara (private)
1187	135		Hungary	Szolnok (Petöfi Radio)
	5		Spain	Cuenca (R. Peninsular)
	5			Sevilla (RNE)
	1		Malagasy Rep.	Tananarive
	1		Morocco	Casablanca 2
1191	2		Turkey	Gaziantep (nom. 1210)
1195	—		Saudi Arabia	Dhahran (Aramco Radio)
1196	300		Germany W	Munich-Ismaning (VOA relay)
	1		Portugal	Portalegre
	1		Lesotho	Maseru (Comm. Service)
	10		UAR Egypt	Alexandria (V)
1200	—		Greece	Agrinión (private)
	0.05		Turkey	Izmir (Technical Teachers School)
1205	100		France	Bordeaux 1
	60		Poland	Krakow/Rzeszow
	1	CR6RE	Angola	Malange (R. Clube de Malange)
	1		Gabon	Oyem
	10		Sierra Leone	Freetown
	—		Zambia	Ndola
	10	4XB35	Israel	Haifa
1214	500		Albania	Shkodra (Foreign Service)
	60		Great Britain	Washford
	35			London/Brookmans Park/ Moorside Edge
	30			Droitwich (Radio One)
	25			Westergien (Radio One)
	20			Burghead (Radio One)
	10			Lisnagarvey (Radio One)
	2			Newcastle/Redruth (Radio One)
	1			Brighton/Fareham/Postwick (Radio One)
	0.5			Londonderry/Plymouth (Radio One)
	0.15			Hull (Radio One)
	1		Malta	Bugibba (R. Malta)
	200		USSR	Tallinn
	2.5			Kursk
	0.05		Yugoslavia	Bjelovar
	1		Angola	Luso (R. Clube do Moxico)
	5		Libya	Tripoli (LBS)
1223	30		Bulgaria	Stara Zagora
	0.05		Holland	Bloemendaal (R. Bloemendaal)
	5		Italy	Rimini/Messina 2
	50		Spain	Madrid 3 (RNE)

kHz	kW	Call	Country	Station/Location
1223	100		Sweden	Falun
	5/0.25		Mozambique	Lourenço Marques B
	10			Nampula (Emissora Reg. do Norte)
1232	100		Czechoslovakia	Kosice (Presov)
	30			Bratislava (Prievoz)
	3			Hradec-Králové/Orava-Dolný Kubin
	1		Gabon	Pt. Gentil (RTV Gabonaise)
	50		Morocco	Tangier 1 (Voice of Morocco)
1236	0.05		Greece	Sparta (private)
1240	10		Ivory Coast	Abidjan 1
1241	25		Finland	Vaasa
	20		France	Rennes/Lille/Lyon Marseille/Nancy Nice/Brest
	150		USSR	Kiev 3
	0.05		Yugoslavia	Crnomelj/Radlje
	5		Angola	Henrique de Carvalho (Em. Regional)
	0.25		S. Africa	Kimberley (Afrikaans)
1250	10		Holland	Hilversum (Lopik 3)
	135		Hungary	Balatonszabadi (Foreign Sce)
	10/5		Ireland	Cork/Dublin
	2	EFJ55	Spain	La Linea de la Concepcion
			USSR	Moscow 2
	0.1		Gabon	Franceville
	0.1		Niger	Niamey
	1.25		Tanzania	Mwanza
1251	0.1		Tchad	Fort Lamy
1255	1		Rhodesia	Salisbury (R. Jacaranda)
1259	150		Greece	Rhodes (VOA Relay)
	50		Poland	Wroclaw
	30			Zielona Gora
	5	EAJ3	Spain	Valencia (R. Valencia)
	2	EAJ47		Valladolid (R. Valladolid)
	1		Angola	Nova Lisboa (R. Clube do Huambo)
1268	600		Germany W	Neumünster (DLF)
	20	EAK1	Spain	Madrid (R. Popular)
	7	EAK18		Palma de Mallorca (R. Popular)
	2	EAK43		El Ferrol (R. Popular)
	84		Yugoslavia	Novi Sad
	10	EAK35	Canary Isl	Las Palmas (R. ECCA)
	50		Kenya	Nairobi
	4		Mali	Mopti (R. Mali)
	2		S. Africa	Pretoria (Comm.)
1270	0.4		Albania	Girocastra
1275	20		Malagasy Rep.	Tananarive (R. Malagasy)
1277	100		France	Strasbourg 2
	20		USSR	Moscow 3
	10		UAR Egypt	Aswan
1280	100		Afghanistan	Kabul (Pol i Tscharchi)
1286	100		Czechoslovakia	Praha/Mělník
	2			Rimavska/Sobota
	2.5	CSB3	Portugal	Lisbon (R. Renascenca)
	1		Cameroon	Yaounde
	0.5		Kenya	Nyeri
	5		S. Africa	Johannesburg (Comm.)
	5		Senegal	Kaolack (R. Sénégal 5)
	7.5		Israel	Tel Aviv (Galei Tsahal)
1295	5		Germany W	Berlin/Charlottenburg (BBC Relay)
	150		Great Britain	Crowborough (BBC European Sce)
	1/0.2			Foxdale, Isle of Man (Manx Radio)
	150		USSR	Baku
	6		Yugoslavia	Vranje
	5		Angola	Serpa Pinto (Emissor Reg. de Menongue)
	1		Morocco	Casablanca 3
	1			Rabat 3
	10		Mozambique	Beira (R. Pax)
	100		Sudan	Omdurman
	2		Turkey	Antalya (TRT) (V)
1300	1		Greece	Orestias (FBS)
1301	2		Turkey	Adana (TRT)
1304	1		Germany W	Heidelberg (AFN)
	0.25			5 low powers (AFN)
	160		Poland	Szczecin
	60			Gdansk
	20		Algeria	Constantine/Oran 2
	0.5		Kenya	Nakuru
	1		Israel	Haifa (Galei Zahal)
1308	20		Iraq	Baghdad (nom. 1350)
1313	0.1		Austria	Knittelfeld/Kötschach 2
	0.05			13 low powers 2
	20		Greece	Athens (FBS)
	2		Italy	Pesaro 2
	100		Norway	Stavanger
	2		Rumania	Constanta/Craiova
	10		Spain	Zaragoza (RNE)
	100		USSR	Simferopol

kHz	kW	Call	Country	Station/Location
1313	0.05		Yugoslavia	Bjelovar
	1	CR6RA	Angola	Sa da Bandeira (R. Clube da Huila)
	1		Gabon	Libréville
	2		S. Africa	Port Elizabeth (English)
1317	0.2		Albania	Shkodra
1320	1		Nigeria	Enugu (NBC East)
1322	150		Germany E	Leipzig/Wiederau (R. Moscow Relay)
	0.5		Portugal	Santarém (R. Ribatejo)
	100		USSR	Kharkov
	1		Morocco	Safi 2
	0.25		Mozambique	Nampula (Em. Regional)
1325	100		Iran	Teheran 2 (Home Service)
1331	150		Italy	Roma 1
	50			Genova 1
	25			Bari/Pescara 1
	12.5			Palermo 1
	2			Aosta 1
	1			Trento/Udine 1
	0.1		Portugal	Elvas (EN)
	0.05		Yugoslavia	Brcko
	20		USSR	Kothla-Järve/Pärnu
	1	CR6RM	Angola	Moçamedes (R. Clube de Moçamedes)
	1		Congo Dem. Rep.	Kinshasa
	1		Madeira	Funchal (ERAM)
1336	0.5	ZCQ3	Seychelles	Victoria, Mahé Island
1340	100		Great Britain	Lisnagarvey (Radio 4)
	0.25			Londonderry
	25		Hungary	Nyiregyháza/Szombathely
	15			Pécs
	1	CR6RW	Angola	Cabinda (R. Clube da Cabinda)
	2		Rhodesia	Bulawayo
	1		Upper Volta	Ouagadougou
1343	0.25		Morocco	B. Mellal 1
1345	200		Kuwait	Kuwait
1348	1		Cameroon	Garoua
1349	0.2		Albania	Korça (V)
	20		France	Bordeaux/Grenoble Limoges/Toulouse
	10			Nantes
	0.4		Hungary	Györ/Szolnok
	20		USSR	Kuldiga/Madona Valmiera/Tbilisi Kuybichev
	1		Mauritania	Nouakchott
1355	1		Greece	Kavalla (FBS)
1358			Albania	Tirana
	250		Germany E	Berlin/Köpenick (BW)
	20		Germany W	Bremen (R. Bremen-Hansawelle)
	100		Portugal	San Gabriel (EN)
	50		USSR	Moscow 2
	0.05		Yugoslavia	Djurdjevac
	10		Mozambique	Lourenço Marques B
	10		Nigeria	Ibadan (NBC West regional)
	0.5	4XB61	Israel	Eilat
	1		South Yemen	Aden-Hiswa (SYBS)
1363	0.05		Yugoslavia	Molve
1367	25		Italy	Venezia 3
	12.5			Napoli 3
	10			Genua/Milano 3
	5			Roma/Torino 3
	2			Palermo/Sassari 3
	1			Bari/Catania Messina/Pisa 3
	0.1			Trento 3
	60		Poland	Bialystok/Lodz/Lublin
	10		Portugal	Porto (EN)
	0.5		Switzerland	Savièse
	20		USSR	Moscow 2
	1/100	CR6RA	Angola	Luanda (A Voz de Angola)
	1		Rhodesia	Que Que (General Sce)
	5		Israel	Beersheva (Galei Zahal)
1376	150		France	Lille 1
				Pau (Inter-côte Basque)
			USSR	Vinnitza
	1		Nigeria	Kano (NBC Northern Sce)
1385	50		Greece	Athens 2
	25	ECS1	Spain	Madrid (R. Centro)
	2	ECS18		Orense (La Voz del Miño)
	2	EFJ11		La Coruña (R. Juventud de Galicia)
	2	EFJ45		Palma (R. Juventud, Baleares)
			USSR	Kaliningrad (R. Moscow Relay)
	150			Kaunas
	50			Uralsk
	1	CR6R0	Angola	Silva Porto (R. Clube do Bié)
	2	ECS16	Canary Isl.	S. Cruz de la Palma (L.V. de la Palma)
1387			Nigeria	Warri (NBC Midwest Reg. Sce)
1390	100		Iran	Ahwaz

kHz	kW	Call	Country	Station/Location
1390	1		Israel	Jerusalem
1394	500		Albania	Shkodra (Foreign Sce)
	25		Austria	Graz 2
	0.2			Zell am Zee 2
	0.05			12 low powers 2
	1	CSB80	Azores	Angra, Terçeira (R. Clube de Angra)
	1		Germany W	Augsburg (AFN)
	0.25			3 low powers (AFN)
	2	EAK6	Spain	Zaragoza (R. Popular)
	2	EAK21		Badajoz (R. Popular)
	2	EAK26		Zamora (R. Popular)
	2	EAK31		Alicante (R. Popular)
	2	EAK33		Vigo (R. Popular)
	2	EAK44		San Sebastian (R. Popular)
	2	EAK46		Albacete (R. Popular)
	5	EAK48		Astorga (R. Popular)
	2	EAK68		Santander (R. Popular)
	2	EAK69		Almeria (R. Popular)
	0.25		Sweden	Gothenburg/Stockholm 3
	0.15			17 low powers
			USSR	Tbilisi
	0.05		Yugoslavia	Hlebine
	10		Libya	Tobruk (LBS)
	4		Malagasy Rep.	Tananarive
	1		Togo	Lomé
1396	2	EAK90	Spain	Córdoba (V) (R. Popular)
1397	0.25		Nigeria	8 low powers (NBC)
1400	0.05		Iceland	Höfn (AFRTS)
	0.25	9UZ23	Burundi	Bujumbura (R. Cordac)
1403	20		France	Brest/Clermont-Ferrand/ Nice/Pau/Rouen
	10			Montpellier
	4			Bastia
	5		Greece	Komotini (NBI)
	50		USSR	Orissare
	10			Tiraspol
	1		Yugoslavia	Loznica
	100		Guinea	Conakry (rptd 1455kHz)
	1	CR6RS	Angola	Lobito (R. Clube do Lobito)
1412	1		Finland	Helsinki 2
	0.4			Turku 2
	2		Germany W	Bad Mergentheim 1 (SDR)
	0.02		Iceland	4 low powers
	2	EAJ4	Spain	Galicia (R. Galicia)
	2	EAJ6		Pamplona (R. Requeté)
	2	EAJ14		Castellón (R. Castellón)
	2	EAJ16		Granada (R. Granada)
	2	EAJ17		Murcia (R. Murcia)
	2	EAJ25		Tarrasa (R. Tarrasa)
	2	EAJ27		Burgos (R. Castilla)
	5	EAJ28		Bilbao (R. Bilbao)
	1	EAJ30		Onteniente (R. Onteniente)
	2	EAJ34		Gijón (R. Gijón)
	2	EAJ55		Algeciras (R. Algeciras)
	2	EAJ64		Segovia (R. Segovia)
	2	EAJ65		Ciudad Real (R. Ciudad Real) (v)
	100		Yugoslavia	Pristina
	20			Gospic/Maribor
	2			Osijek/Split
	1		Angola	Luanda 1 (Em. Oficial)
	1	EAJ43	Canary Isl.	Santa Cruz de Tenerife (R. Clube)
1416	1		Nigeria	Kaduna (NBC Northern Sce)
1421	1		Finland	Tampere
	400		Germany W	Saarbrücken/Heusweiler (Europawelle Saar)
	10		USSR	Riga
	0.025		Yugoslavia	Novigrad Podr.
	40		Algeria	Algiers 3
	0.25		Mozambique	Porto Amélia
	0.05		Tunisia	Sfax
	7.5		Cyprus	Zyyi (BBC Relay)
1425	1		Malta	Halfaya (BFBS)
	10	EPR17	Iran	Isfahan
1430	0.4		Albania	Gjinocastro
	70		Denmark	Skive
	10			Copenhagen-Herstedvester
	250		Germany E	Berlin-Uhlenhorst (RBI)
	1		Italy	Foggia/Toronto 2
	6		Rumania	Oradea (V)
	2	EAK5	Spain	Valencia (R. Popular)
	2	EAK7		Barcelona (R. Popular)
	2	EAK9		Valladolid (R. Popular)
	2	EAK11		Málaga (R. Popular)
	2	EAK14		Huelva (R. Popular)
	2	EAK15		Lérida (R. Popular)
	2	EAK23		Puerollano (R. Popular)
	2	EAK25		León (R. Popular)
	2	EAK29		Lorca (R. Popular)
	2	EAK40		Jaén (R. Popular)
	2	EAK 53		Reus (R. Popular)
	2	EAK57		Caceres (R. Popular)
	2	EAK58		Lugo (R. Popular)
	0.4	EAK67		Cuidadela, Menorca (R. Popular)
1430	2	EAK82	Spain	Figueras (R. Popular)
			USSR	
	0.05		Yugoslavia	Gradacac
	60		Mali	Bamako
	5		Mozambique	Beira (Emissora do Aereo Clube)
1439	600		Luxembourg	Luxembourg (Marnach)
	150		USSR	Syktyvkar
	1		Libya	Tobruk (BFBS)
	2		Rep. of S. Africa	Pretoria
1442	2		Yugoslavia	Gospic
1448	50		Italy	Squinzano 2
	25			Torino 2
	12.5			Palermo 2
	9			Salento 2
	6			Ancona 2
	5			Catania/Firenze/Sassari 2
	2			Udine/Verona 2
	1			16 low powers
	0.1			10 low powers
	1		Portugal	Coimbra (EN)
	2		Sweden	Jönköping/Trollhättan
				Umeå/Västerås 1
	1.5			Hudiksvall/Hälsingborg
				Karlskrona 1
	0.5			Gävle/Visby 1
	0.15			Falkenberg/Kristinehamn
				Säffle 1
	50		USSR	Uralsk
	0.2	ZD8RA	Ascension	Georgetown (R. Ascension)
1454			Yugoslavia	Skopje
1455	0.5		Mozambique	Lourenço Marques (R. Mocidade)
	1		Israel	Jerusalem (Galei Zahal)
1457	0.2		Austria	Spittal-Drau 2
	0.1			Judenburg 2
	0.05			4 low powers 2
	20		Great Britain	Clevedon (Radio 4)
	10			Bartley (Radio 4)
	2			Bexhill/Brighton/Redruth (Radio 4)
	1			Folkestone (Radio 4)
	20		Rumania	Craiova
	2		Zambia	Kabwe (Home Sce)
1458	0.75		Iran	Teheran (Iranian Air Force)
1460		CSB20	Portugal	Caramulo (R. Polo Norte)
1462	1		Iran	Gorgan
1466	400	3AM4	Monaco	Monte-Carlo (Fontbonne)
	1		Norway	Kautokeino/Longyearbyen
				Narvik/Porsgrunn
	0.25			Geilo/Sandnessjön
	20		USSR	Simferopol
	0.05		Yugoslavia	Delcevo
	4		Malagasy Rep.	Tananarive
1475	150		Austria	Vienna 2
	0.05			4 low powers 2
	2	EAJ11	Spain	Reus (R. Reus)
	2	EAJ13		Palma de Mallorca (R. Mallorca)
	2	EAJ18		Logroño (R. Rioja)
	2	EAJ19		Oviedo (R. Asturias)
	3	EAJ20		Sabadell (R. Sabadell)
	2	EAJ23		Gandía (R. Gandía)
	2	EAJ24		Córdoba (R. Córdoba)
	2	EAJ32		Santander (R. Santander)
	2	EAJ40		Pontevedra (R. Pontevedra)
	5	EAJ53		Elche (R. Elche)
	2	EAJ59		Cádiz (R. Cádiz)
	2	EAJ60		Almeria (R. Almeria)
	2	EAJ72		Zamora (R. Zamora)
	1		Congo Rep.	Brazzaville
	1		Dahomey	Cotonou
	0.25	KANU	Ethiopia	Kagnew Base, Asmara (AFRTS)
	1		Iran	Sanandaj
1480	0.25		Trucial Amirates	Sharjah (Forces Radio Station)
1484	0.2		Austria	St. Pölten 2
	5		Belgium	Liège
	2			Brussels (Kuurne)
	1		Bulgaria	Sofia (Pleven)
	30		Czechoslovakia	Rimavská (Sobota)
	5			Brno (Jihlava)
	3			Nitra/Rejviz
	2		Denmark	Copenhagen 1
	0.25			Alborg/Tønder 1
	1		Finland	Pietersaari/Pori
	1		France	Dijon/Grenoble/Montpellier
				Perpignan/Poitiers
	0.05			Caen
				Pau (Inter-côte Basque)
	1		Gibraltar	Wellington Front (R. Gibraltar)
	5		Germany W	Berlin (SFB 2)
	0.2			4 low powers 1 (SDR)
	2		Great Britain	Barrow/Ramsgate (Radio 4)
	2			Edinburgh/Glasgow (Radio 2)
	1		Greece	Volos (NBI)

kHz	kW	Call	Country	Station/Location
1484	0.25		Iceland	Keflavik (AFRTS)
	0.02			2 low powers (Rikisutvarpid)
	2		Italy	Bolzano 2
	1			Aquila/Avellino
				Cosenza/Nuoro 2
	0.1			7 low powers
	1		Norway	Karasjok
	0.25			4 low powers
	8		Poland	Lodz
	2			Kielce/Slupsk
				Szczecinek/Zakopane
	1			Jelenia Gora/Olsztyn
	2		Rumania	5 low powers
	2	EFE1	Spain	Valladolid (L.V. de Valladolid)
	5		USSR	Riga 3
	5		Yugoslavia	Beograd
	2	0.02		40 low powers
	4		Afar & Issa	Djibouti
	1	CR6RP	Angola	Novo Redondo (R. Clube do Cuanza Sul)
	0.2	ZD8RA	Ascension	Georgetown (BBC Relay)
	4		Congo Rep.	Brazzaville
	1		Libya	Tobruk (BFBS)
	1	CSB90	Madeira	Funchal (Radio da Madeira)
	1		Morocco	Casablanca 3
	0.25			Kenitra (AFRTS)
	1		Senegal	St. Louis 3
	0.05		Cyprus	Limassol (CBC)
1489	0.02		Iceland	Hellissandur (Ritisutvarpid)
1493	0.05		Austria	4 low powers 2
	8		France	Ajaccio
	4			Bayonne
	1			Besançon/Marseille
				Strasbourg
	0.05			5 low powers
	5		Greece	Rhodes (NBI)
	0.02	CSB21	Portugal	Guarda (R. Altitude)
			USSR	Leningrad
	20			Gomel
	7		Yugoslavia	Zagreb 2
	2			Murska Sobota
	0.05			Ludbreg
	4		Ivory Coast	Abidjan 2
	1		Mozambique	Beira (R. Pax)
1502	0.8		Germany W.	Münster 1 (WDR)
	0.25			5 low powers (AFN)
	300		Poland	Warzaw (Foreign Service)
	2	EAK2	Spain	Sevilla (R. Vida)
	2	EAK3		Burgos (R. Popular)
	2	EAK4		Pamplona (R. Popular)
	2	EAK12		Murcia (rpt. 1528 V) (R. Popular)
	2	EAK13		Bilbao (R. Popular)
	2	EAK19		Salamanca (R. Popular)
	2	EAK22		Ciudad Real (R. Popular)
	2	EAK24		Ibiza (Baleares) (R. Popular)
	2	EAK39		Granada (R. Popular)
	2	EAK52		Guadalajara (R. Popular)
	2	EAK59		Orense (R. Popular)
	2	EAK78		La Plana, Castellon (R. Popular)
	2	EAK91		Asturias (R. Popular de Avilés)
	0.05		Yugoslavia	Slovenj Gradec
	1	CR6RF	Angola	Benguela (R. Clube de Benguela)
	4		Malagasy Rep.	Tananarive (R. Malagasy)
	1		Cyprus	Nicosia (BFBS)
1510	0.02		Iceland	2 low powers (Rikisutvarpid)
1511	20		Belgium	Brussels 3
	250		Germany E	Berlin (RBI)
	5		Greece	Chania (NBI)
	5			Corfu (NBI)
			USSR	Tallinn/Kaunas
				Aktiubinsk
	0.05		Yugoslavia	Ptuj
	1		St. Helena Isl.	Jamestown
1520	100		Czechoslovakia	Praha (Zbraslav)
	30			Ceské Budéjovice/Karlovy
				Vary Ostrava Svin
	3			Liberac
	2	EAJ31	Spain	Alicante (R. Alicante)
	2	EAJ38		Gerona (R. Gerona)
	5	EAJ39		Barcelona (R. Miramar)
	2	EAJ42		Lérida (R. Lérida)
	2	EAJ44		Albacete (R. Albacete)
	2	EAJ48		Vigo (R. Vigo)
	2	EAJ49		Toledo (R. Toledo)
	2	EAJ54		Alcira (R. Alcira)
	2	EAJ58		Jerez (R. Jerez)
	2	EAJ61	Spain	Jaén (R. Jaén)
	2	EAJ68		Lugo (R. Lugo)
	0.05		Yugoslavia	Petrinja
	1	EAJ21	Morocco (Sp. Enclave)	Melilla (R. Melilla)
	1		Zambia	Livingstone (General Sce)

kHz	kW	Call	Country	Station/Location
1525			USSR	(V)
1529	0.075		Sweden	Porjus 1
	250	HV100	Vatican State	Vatican City
	1		Angola	Sa da Bandeira (R. Comm. de Angola)
	0.3	CSB91	Madeira	Funchal (Radiodif. do Funchal)
1538	700		Germany W	Mainflingen (DLF)
	4		Afar & Issa	Djibouti
	10		Sénégal	Dakar 1
	1		Tchad	Fort Lamy
1546	0.05		Austria	5 low powers 2
	5		Germany E	Seelow (R.DDR)
	1		Great Britain	8 low powers
	0.25			5 low powers
	50		USSR	Vinnitza
1550	1		Yugoslavia	Bitola
1554	300		France	Nice 1
	20		USSR	Vilnius
	1		Gabon	Libreville
1562	0.05		Austria	3 low powers 1
	1.25		Greece	Amalias (NBI)
	10		Intern Waters	Radio Veronica
	1		Portugal	Covilha (EN)
	2-0.06		Sweden	14 low powers (progr 1)
	160		Switzerland	Beromünster
	0.5			Basel
			USSR	Leningrad
	0.05		Yugoslavia	Brezice
1570	1	CSB81	Azores	Santa Maria (Cl. Asas do Atlantico)
	20		Germany E	Bernburg (R.DDR)
	5		Germany W	Kiel/Osnabrück (NDR)
	0.25		Greece	Heraklion, Crete (AFRTS)
	2	EFE8	Spain	Alicante (LV de Alicante)
	2	EFE10		Vitoria (LV de Alava)
	5	EFE17		Valencia (LV de Levante)
	2	EFE25		Santander (LV de Cantabria)
	2	EFE58		Cordoba (LV de Andalucia)
	3	ECS6		Tortosa (R. Tortosa)
	3	ECS7		Tárrega (LV de Lerida)
	5	ECS10	Spain	Socuellamos (LV de la Mancha)
	3	ECS14		Gerona (LV de Gerona)
	5	ECS15		Marbella (R. Marbella)
	2	EFJ2		Soria (V) (R. Juventud)
	2	EFJ23		Albacete (R. Juventud)
	2	EFJ38		Béjar (R. Juventud)
	10		USSR	Leningrad
	0.05		Yugoslavia	Vrbovsko
	4		Algeria	Laghouat
	1		Central African Rep.	Bangui
	1		Niger	Niamey
	2		Zambia	Kabwe (General Service)
	0.05		Turkey	Diyarbakir (AFRTS)
1578	2		Italy	Ancona/Reggio/Sassari/ Verona 1
	1-0.1			17 low powers
	10		Norway	Fredrikstad
	1.3			Nordkapp
	10	CSB5	Portugal	Porto (Em. do Norte Reunidos)
	0.1		Dahomey	Parakou
	5		Ivory Coast	Abidjan (Baouke)
1586	800		Germany W	Langenberg (WDR)
	15		USSR	Tartu
	0.5		Angola	Luanda (A Voz de Luanda)
	1		Upper Volta	Bobo-Dioulasso
1594	0.05		Austria	3 low powers
	5		Belgium	Bredene
	30		Czechoslovakia	Brno (Dobrochov)
	3			Zilina
	1			Vysoké Tatry
	2		Denmark	Esbjerg
	1		France	Nimes/Toulon
	0.05			4 low powers
	1/0.2		Great Britain	Foxdale, Isle of Man (Manx Radio)
	1		Greece	Athens (AFRTS)
	7.5		Holland	Hengelo/Hoogezand/ Hulsberg
	15		Hungary	Balatonzabadi/Miskolc
	0.4			Magyarovar
	2		Italy	Bolzano/Trieste 3
	1			4 low powers
	0.1			2 low powers
	2		Poland	Opole
	1			Koszalin/Gizycko
	10	CSB4	Portugal	Lisboa (Em. Ass. de Lisboa)
	0.2-0.08		Sweden	7 low powers (Prgr 3)
	0.05		Yugoslavia	8 low powers
	0.6		Algeria	Bougie
	1	CR6RD	Angola	Nova Lisboa (R. Clube do Huambo)
	5		Libya	Benghazi (LBS)
	1			Wheelus Field (AFRTS)
	1		Morocco	Marrakech 3
	0.05		Turkey	Karamursel (AFRTS)

kHz	kW	Call	Country	Station/Location
1594	0.025		Turkey	Trabzon (AFRTS)
1600	1	ZD8VR	Ascension Isl.	Georgetown (Volcano
1600			Ascension Isl.	Radio)
1602	400		Germany W	Münich (Ismaning BR)

ASIA AND PACIFIC

Abbreviations: Shortenings used: Bc = Broadcasting (or Broadcasters); (V) = varying frequency.

kHz	kW	Call	Country	Station/Location
155	10		USSR	Petropavlovsk, Kamchatka
	50			Blagoveshchensk, Amur
164	150	RV	USSR	Tashkent, Uzbekistan
170	15		USSR	Kara Bogaz Gol, Turkmenia
173	20	RV52	USSR	Chita, Chitin Oblast
182	50		USSR	Barnaul, Altay Kray
	50	RV90		Alma Atá, Kazakhstan
	30			Petropavlovsk, Kamchatka
191		RV22	USSR	Birobidzhan, JewishAut.
200	100	RV13	USSR	Irkutsk, Irkutsk Oblast
				Ashkabad, Turkmenia
209	60		Mongolia	Ulan Bator
	50	RV122	USSR	Blagoveshchensk, Amur Obl
218			China, P.R.	Shenyang, Liaoning
	50	RV128	USSR	Krasnoyarsk, Krasn. Kray
227	150		Mongolia	Ulan Bator
	50		USSR	Tselinograd, Kazakhstan
236	30		USSR	Magadan, Magadan Oblast
	50			Bulan, Yakut ASSR
	50			Tobolsk, Tyumen Oblast
245	100		USSR	Vladivostok
	100			Nikolaevsk-na-Amure
254	50	RV47	USSR	Dushanbe, Tadzhikistan
	50			Chimkent, Kazakhstan
	50			Ulagan, Altay Kray
263	50	RV62	USSR	Yakutsk, Yakut ASSR
272			China, P.R.	Harbin, Heilungkiang (v)
	150	RV76	USSR	Novosibirsk
	50			Chardzhou, Turkmenia
281	10	RV63	USSR	Ulan Ude, Buryat-Mongol
	50			Krasnogorsk, Kharov Kray
	50			Ussuriysk (Vladivostok)
310	50		USSR	Barnaul, Altay Kray
331		RV81	USSR	Nukus, Kara-Kalpak ASSR
333	2		USSR	Turtkul, Kara-Kalpak ASSR
335	150	RV69	USSR	Khabarovsk
340			USSR	Dudinka, Krasnoyar Kray
	2			Igarka, Krasnoyar Kray
350	20		USSR	Dushanbé, Tadzhikistan
		RV51		Nalchik, Kabardin ASSR
360	100		USSR	Yuzhno Sakhalinsk
367	40	RV5	USSR	Sverdlovsk, Sverdlovsk Obl.
375	10	RV19	USSR	Ashkabad, Turkmenia
380		RV32	USSR	Vladivostok
390	1		USSR	Gorno Altaysk, Altay Kray
394	50	RV49	USSR	Omsk, Omsk Oblast
400	50		USSR	Tashkent, Uzbekistan
529	400		USSR	Urghench, Kara-Kalpak
530	10	6DL	Australia	Dalwallinu, W.A. (ABC)
	2	2KM		Kempsey (Green Hill)
	2	3UL		Warragul (Ass. Bc.)
	2	4KZ		Innisfail (Costal Bc.)
	10	JO8AD	Japan	Morioka (NHK1) (exp.)
	5	DZKR	Philippines	Manila, Mabuhay Bc. System
540	10	4QL	Australia	Longreach, Qld (ABC 3rd)
	2	7SD		Scottsdale, Tasmania
	0.25		Ceylon	Senkadagala (Sinhala)
			China, P.R.	Peking
	5	JOJG	Japan	Yamagata (NHK1)
	1	JOJU		Nano (NHK1)
	1	JOMG		Miyazaki (NHK1)
	1	JOSG		Matsumoto (NHK1)
	1	JOSK		Kitakyushu (NHK1)
	1	HLCZ	Korea, South	Hongsung (KSB)
	1	HLCV		Yongwoll (KBS)
	1	HLCS		Jumchon (KBS)
	1/0.5	DZYZ	Philippines	Olongapo (Nation Bc. Corp.)
	10	DZWT		Trinidad Mt. Province
	50		Vietnam, So.	Saigon (AFRTS)
548	150	RV445	USSR	Vladivostok
550	50	2CR	Australia	Orange, N.S.W. (ABC 3rd)
	5	KMVI	Hawaii	Wailuku Maui
	100		India	Bombay B
	10		Malaysia	Ipoh (Malay Sce.)
	0.25	2ZN	Niue Isl.	Niue Island
	1	DZCA	Philippines	Manila, Luneta
	1	DYCI		Iloilo City, Panay
550	1	DYCH	Philippines	Maasin, Leyte
555	10		Thailand	Bangkok ("Chor Sor 1")
560	0.4	2ML	Australia	Murwillumbah (ABC 3rd)
	2	4AM		Atherton, Qld.
	50	6WA		Wagin (ABC 3rd + reg.)
	2/1	7BU		Burnie (Burnie Bc. Sce.)
	135		China, P.R.	Peking + 1st.
	10	VRH	Fiji	Suva (English Sce.)
	5		India	Ranchi
560	0.5		India	2 low powers
	10	JOCR	Japan	Kobe (R. Kansai Co.)
	1	HLCJ	Korea, So.	Chinju (KBS)
	5			Seoul (AFKN "Vagabond")
	1	DZC1	Philippines	Cabanatuan City (Nation Bc. Corp.)
	1	DZAA		Legaspi (Pacific Bc. Syst.)
	10		Vietnam, South	Pleiku (AFRTS)
565	10		Malaysia	Tenom, Sabah
570	0.25		Ceylon	Nat. Sce. (Sinhala)
			China, P.R.	Peking or Chungking
	0.5		India	Jubbulpore
	100	JOIK	Japan	Sapporo (NHK1)
	10	HLKF	Korea, South	Chonju (KBS)
	10		Malaysia	Johore Bahru (Malay Sce.)
	100	2YA	New Zealand	Wellington
	10	DYCB	Philippines	Cebu (Bolinao Electr.)
575	10	HLKR	Korea, South	Kangneung (KBS)
	1	HLKD		Masan (KBS)
	50		USSR	Sredne Kolymsk
580	50	3WV	Australia	Horsham (ABC 3rd + reg.)
			China, P.R.	Fuchou (Foochow)
	10	JOHG	Japan	Kagoshima (NHK1)
	0.1			3 st's. (NHK1)
	5		Korea, South	Taegu (AFKN "Kilroy")
	1			Munsan-Ni ("Tomahawk")
	10		Pakistan	Peshawar
	10	DZBB	Philippines	Malabon, Rizal (Rep. Bc. Syst.)
584	50		USSR	Svobodny, Amur Oblast
585			China, P.R.	Changchun, Kirin.
			Korea, North	Unknown, Programme II
590	50	4QR	Australia	Brisbane (ABC 1st Net)
			China, P.R.	Peking + 2 st's
		BEH4	China, Taiwan	Taipei (Fu Hsing St)
		BEH42		Kaohsiung (Fu Hsing St)
	5	KGBM	Hawaii	Piihonua, Hilo
	100	JOAK	Japan	Tokyo (NHK1)
	20		Malaysia	Kuala Lumpur (Malay Sce.)
	1	DXDC	Philippines	Davao City (R. Mindanao)
	1	DZHB		Baguio (R. Mindanao)
	10		Thailand	Chumpon (Wor Por Thor 15)
	10			Khon Kaen (Wor Por Thor 12)
592			USSR	Novosibirsk, Novosibirsk
593	10			Krasnoyarsk
600	4/2	4AT	Australia	Atherton (ABC 3rd Net)
	2	6PH		Port Hedland (ABC 3rd Net)
	0.2	6NM		Northam (ABC 3rd Net)
	10	7ZL		Hobart (ABC 2nd Net)
	135		China, P.R.	Changchou, Fukien (v)
	0.6	ZKIZC	Cook Isl.	Rarotonga
	50		India	Ajmer
	5	JOKK	Japan	Okayama (NHK1)
	1	JOCY		Nayoro (NHK1)
	10	HLCA	Korea, South	Seoul (KBS)
	1	HLSM		Jangheung (KBS)
	10		Malaysia	Turan, Sabah
	5	DYRC	Philippines	Cebu City (Cebu Bc. Co)
	1	DZVV		Vigán (Northern Bc. Net)
	1	DZAX		Bulacan (R. Philippines)
	10	HSAAA	Thailand	Bangkok
	10			Bangsue
605			Korea, North	Unknown
610	50	2FC	Australia	Sydney (ABC 2nd Net)
	135		China, P.R.	Shanghai
	50		India	Bangalore A
	100	JOLK	Japan	Fukuoka (NHK1)
	10	KUAM	Mariana Isl.	Agana, Guam
610	1	DXMB	Philippines	Malaybalay
	20		Vietnam, South	Saigon (Prgr. B)
611	25	RV9	USSR	Frunze, Kirghizia
617	2.5		USSR	Abakan, Krasnoyarsk Kray
	620 50	3AR	Australia	Melbourne (ABC 2nd Net)
			China, P.R.	2 st's
	1	BEC78	China, Taiwan	Shih Lin, Taipei
	20		India	Patna A
	3	JOCG	Japan	Asahikawa (NHK1)
	1	JOMT		Nobeoka (NHK1)
	1	JOSQ		Iida (NHK1)
	0.05			Iwami (NHK1)
	50	DZAQ	Philippines	Bulacan (Bolinao Electr)
	150		USSR	Kemerovo, Kemerovo Obl.
625			Korea, North	Haeju, Prgr. II
629	100		USSR	Vladivostok (Far East Sce.)
	50			Khabarovsk

kHz	kW	Call	Country	Station/Location
630	50	4QN	Australia	Townsville (ABC 3rd + reg)
	0.2	7QN		Queenstown (ABC 3rd + reg)
			China, P.R.	Peking + 1st
	1		India	Alleppey
	5	JOIG	Japan	Toyama (NHK1)
	20	2YZ	New Zealand	Napier
	100	APL1	Pakistan	Lahore I
	5	DYAG	Philippines	Cadiz (Liberty Bc. Net)
	1	DXBC		Butuan City (R. Mindanao)
	10	DZRL		Laoag (R. Philippines Net)
	10		Singapore	Singapore (Engl. Sce)
	50	HSKK	Thailand	Khon Kaen (nom. 660)
635			China, P.R.	Nanning, Kuanghai (v)
			Korea, North	Chongjin (Foreign Sce)
	1		Thailand	Surat Thani (Pub. Rel)
	1			Hat Yai (Pub. Rel. Dept)
	1			Songkhla (Pub. Rel. Dept)
640	10	5CK	Australia	Port Pirie (ABC 3rd + reg)
	0.25		Ceylon	Colombo, Comm. (Sinhala)
	20	ZEK	Hong Kong	Hong Kong (Chinese Sce)
	10	JOPG	Japan	Kushire (NHK1)
	20	HLKC	Korea, South	Seoul (Tong-Yang Bc. Co)
	10		Laos	Vientiane (Radiodiff. Nat)
	0.05		Lord Howe Isl.	Lord Howe Isl.
	2	4YW	New Zealand	Dunedin (Alexandra)
	10	DXAW	Philippines	Davao (Bolinao Electr)
645	270		China, P.R.	Peking (v)
647	50	RW185	USSR	Iman, Primorskiy Kray
	50			Khantymansiysk, Tyumen
650	10	2NU	Australia	Tamworth (ABC 3rd + reg)
	0.4	6AL		Albany (ABC 3rd + reg)
	2	8DR		Darwin (ABC 3rd + reg)
	1	BEV59	China, Taiwan	Taichung
	10	KORL	Hawaii	Honolulu
	20		India	Indore A
	1	HLSL	Korea, South	Bosung (KBS)
	10	DZRH	Philippines	Manila (MBC)
	10		Ryukyu Isl.	Naha, Okinawa (AFRTS)
	10	HSJS1	Thailand	Bangkok (Chor Sor 1)
655			Korea, North	Pyongyang (II)
656	50		USSR	Verkhoyansk, Yakut ASSR
660	20		Afghanistan	Kabul
	0.2	2BH	Australia	Broken Hill
	2	6GF		Kalgoorlie (ABC 3rd + reg)
			China, P.R.	Harbin Heilungkiang (v)
	20	BED34	China, Taiwan	Taipei (BCC)
	5		India	Trivandrum A
	1			Nagpur B
	5	JOAG	Japan	Nagasaki (NHK1)
	5	JOOG		Obihiro (NHK1)
	10	HLKM	Korea, South	Chunchon (KBS)
	10		Malaysia	Penang (Malay Sce)
	60	2YC	New Zealand	Wellington
	1	DZXI	Philippines	Laoag (Monserrat Bc. Syst)
	1	DYBC		Cebu City (Visayan Bc. Syst)
	1	DXLC		—
	50	HSKK	Thailand	Khon Kaen (R. Thailand) (rep. on 630)
662	10			Bangkhen (Mor Kor 1)
665	10		Malaysia	Lahad Dayu, Sabah
	100		USSR	Komsomolsk-Amur
670	10	2CO	Australia	Albury (ABC 3rd + reg)
	0.05	6BE		Broome (ABC 3rd + reg)
	0.05	8KN		Katherine (ABC 3rd + reg)
			China, P.R.	Paotou, Inner Mongolia
	10		India	Nagpur A
	10			Calcutta A
	100	JOBK	Japan	Osaka (NHK1)
	0.05			Miki (NHK1)
	1	DZYB	Philippines	Baguio City (Mabuhay Bc)
670	1	DYPL		Iloilo City (Chronicle Bc)
	1	DXRD		Davao (Nation Bc. Corp)
	0.05		Vietnam, South	Long An
674	50		USSR	Yeniseisk, Krasnoyar Kray
675			China, P.R.	Huhehot, Inner Mongolia (v)
680	10	2KP	Australia	Kempsey (ABC 3rd + reg)
	0.05	8TC		Tennant Creek (ABC 3rd + reg)
			China, P.R.	Peking (local) + 3 st's
	1.5	BEP24	China, Taiwan	Changhua (Police Bc. St)
	3	BEC23		Taipei (Military)
	10		India	Calicut A
	5	JOUG	Japan	Yamaguchi (NHK1)
	5	JOVK		Hakodate (NHK1)
	10	DZAS	Philippines	Bulacan (FEBC)
	1	DXJM		Butuan City (Pacific Bc)
	150		Singapore	Singapore (Chinese Sce)
685			China, P.R.	
690	2	4KQ	Australia	Brisbane (Labour Bc. St)
	50	6WF		Perth (ABC 1st Net)
			China, P.R.	Peking + 3 st's
	1.5	BEC32	China, Taiwan	Kaohsiung (Military Bc. St)
	10	KKUA	Hawaii	Honolulu
	300	JOAB	Japan	Tokyo (NHK2)
	20	3YA	New Zealand	Christchurch
	100	APD2	Pakistan	Dacca II
	1	DZBL	Philippines	Legaspi (Bolinao Electr)
	1	DZTG		Cagayan de Oro (R. Philippines)

kHz	kW	Call	Country	Station/Location
690	1	DXDX	Philippines	Cotabato (R. Philippines)
	0.5	DXLM		Marawi (Phil. Bc. Sce)
	50		Vietnam, South	Banmethout
692	50	RW184	USSR	Anadyr, Magadan Oblast
697			Korea, North	Chongjin (Prgr. II)
700	50	2NR	Australia	Grafton (ABC 3rd + reg)
	25		Ceylon	Colombo, Nat. Sce. (Sinhala)
			China, P.R.	Nanching, Kiangsu + 1st
	3	BEC25	China, Taiwan	Taipei (Military Bc. St)
	10	JOFB	Japan	Hiroshima (NHK2)
	10	JOKD		Kitami (NHK2)
	10		Malaysia	Kota Bahru (Malay Sce)
	1	DZLU	Philippines	San Fernando (Northern Bc)
	10	DXLY		Davao City
	1	DXCL		Cagayan de Oro (Bolinao)
705	20		Thailand	Bangkok (Wor Por Thor 705)
710	10	4QW	Australia	St. George (ABC 3rd + reg)
	10	7NT		Launceston (ABC 3rd + reg)
			China, P.R.	Chungking, Szechuan
	1.5	BEC72	China, Taiwan	Tainan (Air Force Bc. St)
	3	VRH2	Fiji	Naula Rewa (Vernaculars)
	500	HLKA	Korea, South	Seoul (KBS)
	10	DZFM	Philippines	Bulacan (Philippines Bc)
	10/5	DXRA		Davao (North Bc. St)
	100	RV77	USSR	Vladivostok (Foreign Sce)
	0.05		Vietnam, South	Kiên Hoa
715	10		Thailand	Lop Buri (local)
719	100		USSR	Tujnsakhalinsk (Sak. Obl)
720	0.2	2TR	Australia	Taree (ABC 3rd + reg)
	2	4QA		Mackay (ABC 3rd + reg)
	0.2	6CA		Carnarvon (ABC 3rd + reg)
	0.5	7QT		Queenstown (Tasmania)
			China, P.R.	Peking
	10	BED58	China, Taiwan	Taichung (BCC)
		KUAI	Hawaii	
	10		India	Madras A
	1	JODF	Japan	Morioka (IBC)
	1	JOIL		Kokura (Kyushu Asahi)
	0.1	JOZL		Takayama (R. Gifu)
	20	4YZ	New Zealand	Invercargill
	1	DXIC	Philippines	Iligán (R. Mindanao Net)
	1	DZGB		Legaspi (Legaspi Bc. Syst)
	10		Thailand	Hat Yai (Wor Por Thor 5)
	10		Vietnam, South	Hué
725			Korea, North	Kim-chaek (Prgr. I)
	55	HSWK	Thailand	Nakhon Ratchasima
730	50	5CL	Australia	Adelaide (ABC 2nd Net)
			China, P.R.	Peking
			China, Taiwan	Mushah (World News)
	10		India	Gauhati A
	10	JOCK	Japan	Nagoya (NHK1)
	20/10		Malaysia	Kuching, Sarawak
	1	DYBR	Philippines	Tacloban (East Visayan Net)
	1	DXND		Cotabato City (Notre Dame Bc)
	50		Tahiti	Papeete
735			Korea, North	Pyongyang (Prgr. II)
	10		Macau	Emiss. Vila Verde, reported on 738kHz)
737	50	RV72	USSR	Chelyabinsk, Chelyab. Obl.
	50			Khanty Mansiysk, Tyumen Obl.
	50			Ussuriysk, Primorskiy Obl.
740	50	2BL	Australia	Sydney (ABC 1st Net)
	120	XUD24	Cambodia	Phnom Penh
			China, P.R.	3 st's
	20		India	Hyderabad A
	5	JOJF	Japan	Kofu (YBS)
	5	JOLR		Toyama (KNB)
	100	HLKG	Korea, South	Taegu (KBS)
	10		Malaysia	Ipoh (English Sce)
	5	DXMC	Philippines	Davao City (Mindanao Bc)
	1	DZBM		Quezon City (Mareco Inc)
	1	DZCV		Cagayan de Oro (Filipinas Bc)
	5/1	DYWC		Malusay, Negros Oriental
	5	KSAR	Ryukyu Isl.	Naha, Okinawa (RBC)
746			USSR	Alma-Atá, Kazakhstan
		RV46		Karagandá, Kazakhstan
	20			Tselinograd, Kazakhstan
	200			Semipalatinsk, Kazakhstan
750	10	4QS	Australia	Toowoomba (ABC 3rd + reg)
			China, P.R.	2 st's
	150	BED2	China, Taiwan	Minhsiung (BCC)
	1		India	Pondicherry
	0.5			Ernakulam
	100	JOIB	Japan	Sapporo (NHK2)
	10	NLKH	Korea, South	Kwangju (KBS)
	5		Malaysia	Tawau, Sabah
	2	3ZA	New Zealand	Greymouth (Comm. Adv)
	10		Pakistan	Quetta
	5	DZRB	Philippines	Camarinas Sur (Bolinao)
	1	DXGS		Cotabato (Filipinas Bc. Net)
755			USSR	Dushanbé, Tadzhikistan
760	0.05	2AN	Australia	Armidale (ABC 3rd + reg)
	1	2NB		Broken Hill (ABC 3rd + reg)
	2	6BS		Brusselton (ABC 3rd + reg)
			China, P.R.	Peking + 1 st

kHz	kW	Call	Country	Station/Location
760	10	KGU	Hawaii	Honolulu
	50		India	Lucknow A
	10	JOPB	Japan	Shizuoka (NHK2)
	10	JOUK		Akita (NHK1)
	20	1YA	New Zealand	Auckland
	1	DZMB	Philippines	Navotas Rizal (MBC)
	1	DXRI		Iligan (Nation Bc. Corp)
	50		Vietnam, South	Huê (Voice of America)
765	10		Malaysia	Kuala Trengganau (Malay)
770	50	3LO	Australia	Melbourne (ABC 1st Net)
			China, P.R.	Wuhan, Hupeh
	0.5	BEC35	China, Taiwan	Tsoying (Military Bc. St)
	1	BEV88		Taoyuan (Hsien Sheng St)
	10	JOUB	Japan	Akita (NHK2)
	1	DZJC	Philippines	Laog
	1	DXMZ		Cotabato (Mindanao Bc)
	1	DYPR		Puerto Princesa (Allied Bc)
	1	DYRR		Ormoc City (R. Henry Canoy)
	0.1		Thailand	2 low powers (AFRTS)
	10		Vietnam, South	Qui-Nhon (AFRTS)
780	2	2KA	Australia	Katoomba NSW (TBC)
	2	4TO		Townsville Qld. (AWA)
	2	6VA		Albany (Albany Broadc)
			China, P.R.	2 st's
		BED92	China, Taiwan	(BCC)
	20		India	Poona A
	1	JOBS	Japan	Hikone (NHK1)
	3	JOIU		Muroran (NHK1)
	5	JOXK		Tokushima (NHK1)
	5		Korea, South	Pusan (AFKN Homesteader)
	10		Malaysia	Sandakan, Sabah
	20	4YA	New Zealand	Dunedin
	10	DXCC	Philippines	Cagayan de Oro (R. Mindanao)
	2.5	DXDO		Davao (Freedom Bc. Net)
	1	DZRV		Quezon City (Rajah Bc. Net)
782			USSR	Alma-Atâ, Kazakhstan
	20			Karagandâ, Kazakhstan
785			Korea, North	Pyongyang, Prgr. I (v)
	10		Thailand	Bangkrabue ("Yan kro")
790	10	4QG	Australia	Brisbane (ABC 2nd Net)
			China, P.R.	3 st's
		BEH4	China, Taiwan	Taipei (Fu Hsing Bc. St)
	1	BEV79	China, Taiwan	Keelung (Chung Hua Bc)
	1	KONA	Hawaii	Kealakekua, Kona
	0.5		India	Nanded
	1	JOCQ	Japan	Takayama (NHK1)
	1	JOQX		Takada (NHK1)
	1	JOHI		Naze (NHK1)
	1			Enbetsu (NHK1)
	0.1			3 stations (NHK1)
	50	HLKJ	Korea, South	Seoul, Dong-A Bc. System
	10		Nepal	Kathmandu
	1	DZAB	Philippines	Angeles City (Delta Bc)
	1	DYVL		Palo, Leyte (MBC)
	1	DZXE		Vigan (Pacific Bc. Syst)
	100		Singapore	Singapore (Multilingual)
795			China, P.R.	Shanghai
800	2		Australia	Innisfail-Tully (Comm)
	2	5RM		Murray Valley (Berri)
			China, P.R.	2 st's
		BEC50	China, Taiwan	Kinmen Island
	20		India	Bhadrawathi
	0.1		Japan	9 stations, private
	0.02-0.05			3 stations, private
			Korea, North	Kim-chaek, Prgr. I (v)
	5		Malaysia	Kudat, Sabah
	20	2YB	New Zealand	Wellington
	1	DZPI	Philippines	Manila (Philippines Bc)
	5	DYFM		Iloilo (Northern Bc. Net)
	2		Thailand	Nakhon Ratchasima (Air Oper. Command)
	1			2 st's (Air Oper. Command)
	200		USSR	Dushanbê, Tadzhikistan
	10		Vietnam, South	Quang Ngai
803			China, P.R.	Peking
810	10	2BA	Australia	Bega (ABC 3rd + reg)
	10	6WN		Perth (ABC 2nd Net)
			China, P.R.	Urumchi, Simkinag
	1.5	BEV54	China, Taiwan	Changhua (Kuo-Sheng Bc)
	100		India	Delhi A
	10		Japan	Tokyo (FEN)
	1	HLCT	Korea, South	Taegu (Hankuk Munhwa Bc)
	10		Malaysia	Kuantan (Malay Sce)
	2	9RB	Papua & New Guinea	Kurakakaul, Rabaul
	1	DZMU	Philippines	Cagayan de Oro (Mindanao Bc. Syst)
	1	DZSP		San Pablo City (Nation Bc)
	1	DXMI		Iligan (Mindanao Bc)
	1	DXMM		Davao (Mindanao Bc. Syst)
	2.5	HSK27	Thailand	Bangkok (R. Thailand)
815			Korea, North	
820	10	2GL	Australia	Glen Innes (ABC 3rd Net)
			China, P.R.	Peking + 3 st's
	1	BED28	China, Taiwan	Taitung (BCC)
	1	BEV34		Taipei (Cheng Sheng Bc)
	0.5	ZKIZA	Cook Isls.	Rarotonga
	1		India	Bangalore B

kHz	kW	Call	Country	Station/Location
820	1		India	Jodhpur
	0.5			Bhagalpur
	1	JOCP	Japan	Koriyama (NHK1)
	1	JONK		Nagano (NHK1)
	1	JOIP		Ooita (NHK1)
	1	JOGQ		Hitoyoshi (NHK1)
	0.5/0.1			3 st's (NHK1)
			Korea, North	Najin (varies 815-820kHz)
	1	HLCN	Korea, South	Kwangju (Hankuk Munhwa)
	10	4ZA	New Zealand	Invercargill (Comm. adv)
	1	DYBU	Philippines	Cebu City (Philippines Bc)
	1		Vietnam, South	Saigon (AFRTS)
825			China, P.R.	Peking
827	50		USSR	Dudinka, Krasoyar Kray
830	10	3GI	Australia	Sale (ABC 3rd + reg)
	2	6GN		Geraldton (ABC 3rd + reg)
			China, P.R.	Luta (Dairen)
	2.4	BEV56	China, Taiwan	Tainan (Voice of Victory)
	10	KIKI	Hawaii	Honolulu
	0.5		India	Varanasi
	100	JOBB	Japan	Osaka (NHK2)
	0.05			Miki (NHK2)
	2	1YX	New Zealand	Whangarei
	10	APK1	Pakistan	Karachi
	5	DZQL	Philippines	Meycauayan, Bulacan
	1	DXRB		Butuan (Nation Bc. Corp)
	100	HSK2	Thailand	R. Thailand
835	150		China, P.R.	Nanchang, Kiangsi
836	50		USSR	Tura, Krasnoyar Kray
840	10	4RK	Australia	Rockhampton (ABC 3rd + reg)
	1	6ED		Esperance (ABC 3rd + reg)
			China, P.R.	2 st's
	0.3	BEC38	China, Taiwan	Penghu (Military Bc. St)
	1.2		Fiji	Suva (Alternate Prgrs)
	20		India	Vijayawada A
	10	JOQK	Japan	Nigata (NHK1)
	50	HLKY	Korea, South	Seoul (Christian Bc. Syst)
	10		Malaysia	Kota Bahru (English Sce)
	2	2ZD	New Zealand	Masterton (Comm. Adv)
	10	DYSR	Philippines	Dumaguete City
843	50	HSK909	Thailand	Sakon Nakhon (local)
			China, P.R.	Unknown location, Kiangsi
844	0.05	VSZ1	Gilbert & Ellice Isl.	Betio, Tarawa Island
845	50		USSR	Akmolinsk, Kazakhstan
850	10	2CY	Australia	Canberra (ABC 3rd Net)
			China, P.R.	6 stations
	1	BEC49	China, Taiwan	Matsu Island
	1	KIMO	Hawaii	Hilo
	50		India	Ahmedabad A
	10	JOQG	Japan	Morioka (NHK1)
			Korea, North	Pyongyang, Prgr. II (v)
	20/10		Malaysia	Kuching, Sarawak
	5	DZGE	Philippines	Canaman, Camarines Sur
	1	DXMY		Davao Norte (Mindanao Bc)
	10		Vietnam, South	Da Nang (AFRTS)
854	50		USSR	Amga, Yakut ASSR
	50			Chelyabinsk, Sverdlovsk Obl.
856	10	HSK28	Thailand	Bangkok, R. Thailand
860	2	4QR	Australia	Toowomba, Qld.
	2	6AM		Northam (WBN)
	2	7HO		Hobart (Comm. B'ers)
			China, P.R.	2 st's
	1	BED25	China, Taiwan	Kaohsiung (BCC)
	1	BED27		Hualien (BCC)
	1	BEV24		Taipei (Min Pen St)
	20	ZBV	Hong Kong	R. Hong Kong (Engl. Sce)
	20		India	Sambalpur
	5	JOPR	Japan	Fukui (Fukui Bc. Co)
	3	JOHE		Asahigawa (HBC)
	3	JOQF		Muroran (HBC)
	1	JOSO		Matsumoto (SBC)
	0.1	JOSN		Toyohashi (RTC)
			Korea, North	Unknown, Prgr. I (v)
	10	HLKN	Korea, South	Mokpo (KBS)
	10		Malaysia	Penang (English Sce)
	10	1YZ	New Zealand	Rotorua
	50	DZRV	Philippines	Bulacan (Radio Veritas)
	1	DYOG		Calbayog City (Visayan Bc)
863	50		USSR	Karagandâ, Kazakhstan
870	5	2GB	Australia	Sydney
	2	6DB		Derby (ABC 3rd + reg)
	20		Ceylon	Colombo, Nat. Sce. (Tamil)
			China, P.R.	3 st's
	1.5	BEV52	China, Taiwan	Taichung (Chung Sheng Bc)
	5	KAIM	Hawaii	Honolulu
	0.5		India	Ujjain
	100	JOLB	Japan	Fukuoka (NHK2)
	10		Pakistan	Chittagong
	0.025			Peshawar (AFRTS)
	1	DXYL	Philippines	Bacolod City (Chronicle Bc)
	1	DXVM		Cagayan de Oro (R. Mindanao Net)
	1	DZBT		Batangas (Assoc. Bc)
	50		Vietnam, South	Saigon (Prgr. A)
877			Korea, North	Wonsan (v)
880	2/1	4WK	Australia	Warwick, Qld.

kHz	kW	Call	Country	Station/Location
880	2	6PR	Australia	Perth, W.A.
			China, P.R.	2 st's
	5		India	Panjim (Goa)
	5			Sikkim
	10	HLKI	Korea, South	Taejon (KBS)
	10	1YC	New Zealand	Auckland
	5	DXMS	Philippines	Cotabato City
	1	DZTS		
	3	KSBK	Ryukyu Isl.	Naha, Okinawa (RBC)
885	20		Malaysia	Kuala Lumpur (English)
890	50	5AN	Australia	Adelaide (ABC 1st Net)
			China, P.R.	Peking + 4 st's
	1	BED24	China, Taiwan	Tainan (BCC)
	1	BED85		Taipei (BCC)
	2.5	VRH3	Fiji	Lautoka (English/Hindu)
	50		India	Jullundur
	10	JOHK	Japan	Sendai (NHK1)
	50	HLKB	Korea, South	Pusan (KBS)
	5/1	DZRC	Philippines	Legaspi (Filipinas Bc)
	1	DZXX		Malabon (Rep. Bc. Syst)
	1		Thailand	Bangkrabue (Yan Kro)
895	10		Brunei	Brunei Town (English)
900	2	2LM	Australia	Lismore, NSW
	2	6BY		Bridgetown (W.A.)
	2/1	7AD		Devonport, Tasmania
			China, P.R.	Hsian (Sian), Shensi
	100	BED96	China, Taiwan	Tamsui (BCC)
	20		India	Cuddapah
	5	JOHF	Japan	Yonago (San Jn. Bc)
	0.05			Masuda (San Jn. Bc)
	5	JOZR		Kochi (R. Kochi Bc. Co)
	5	JOHO		Hakodate (HBC)
	50	HLKV	Korea, South	Seoul (Hankuk Munhwa)
	10		Macau	Em. de Radiodif. de Macau
	10	4YC	New Zealand	Dunedin
	1	DXUM	Philippines	Davao City (Mindanao Bc)
	1	DZAD		Dagupan City (Pacific Bc)
	1	DYHP		Cebu City (R. Mindanao)
	50		Vietnam, South	Cam Ramh Bay (AFRTS)
910	10	4QB	Australia	Maryborough (ABC 3rd + reg)
	10	4QO		Eidsvold (ABC 3rd + reg)
			China, P.R.	4 st's
		BEH10	China, Taiwan	Taipei (Fu Hsing Bc. St + 3 reg)
	1		India	Lucknow C
	10	JOCB	Japan	Nagoya (NHK2)
	0.25	HLSE	Korea, South	Inje (KBS)
	1	DXLI	Philippines	Iligan (Chronicle Bc)
	1	DYHF		Iloilo (Visayan Bc)
	1	DXMX		Zamboanga (Mindanao Bc)
	1		Thailand	Thon Buri (Por Chor Sor 7)
920	2	2XL	Australia	Cooma (Cooma Broadc)
	2/1	4VL		Charleville, Qld.
	2	6NA		Narrogin, W.A.
	20		Ceylon	Colombo
			China, P.R.	4 st's
	2	BEV72	China, Taiwan	Chiayi
	1		India	Amritsar
	0.15			4 low power st's
	5	JOEF	Japan	Yamagata (YBC)
	1			Miyazaki (MBC)
	0.05			3 st's (private)
	1	HLCO	Korea, South	Chulwon (KBS)
	0.25	KMTH	Midway Isl.	Midway Island (AFRTS)
	10	3YZ	New Zealand	Greymouth
	50		Philippines	Malolos (VOA)
	50	DZRP		Bulacan (PBS)
	10		Vietnam, South	Ba-Xuyen
926	50		USSR	Taichet, Irkutsk Obl.
927	10	HSKL	Thailand	Bangkok (R. Thailand)
930	5	3UZ	Australia	Melbourne (Nilsens Bc)
			China, P.R.	3 st's
	1	BEV78		Keelung (Yi Shih Bc. St)
	1	BEC42		Taipei (Army St)
		BEH35		Flan (Fu Hsing Bc. St)
	5		Fiji	Singatoka
	10		India	Visakhapatham
	1			Simla
	10	JOGK	Japan	Kumamoto (NHK1)
			Korea, North	Unknown
	0.25	HLSU	Korea, South	Hadong (KBS)
	5		Malaysia	Jesselton, Sabah
	10	DXMT	Philippines	Davao City (Assoc. Bc)
931	1	HSHW	Thailand	Pattani (Malay Peninsula)
940	1	4QY	Australia	Cairns (ABC 3rd + reg)
	10	7ZR		Hobart (ABC 1st Net)
			China, P.R.	Hofei, Anhuei
	10	KAHU	Hawaii	Waipahu
	100		India	Tiruchi A
	5	JOPF	Japan	Tokuyama (YBC)
	5	JOTR		Akita (ABS)
	1	HLCR	Korea, South	Andong (KBS)
	10		Malaysia	Johore Bahru (English)
	2	2ZA	New Zealand	Palmerston North
	5	DZTD	Philippines	Dagupan City (Assoc. Bc)
	1	DYCR		Dumaguete (Nat. Council of Churches)
	1	DZQR		Dumaguete

kHz	kW	Call	Country	Station/Location
940	1	DXRO	Philippines	Cotabato
	1	DZVS		Sorgoson
950	5	2UE	Australia	Sydney (MBN)
			China, P.R.	4 st's
	2.4	BEV85	China, Taiwan	Hsinying (Chien Kuo Bc)
	50		India	Allahabad A
	50	JOKR	Japan	Tokyo (TBS)
	0.3		Laos	Vientiane (Local Sce)
	20/10		Malaysia	Kuching, Sarawak
	1	DXRZ	Philippines	Zamboanga (Mindanao Bc)
	1	DXMO		Cagayan de Oro (Mindanao Bc)
	1	HSQ	Thailand	Police St.
955	50	XZK	Burma	Rangoon (Prgr. 1)
	1	XUD23	Cambodia	Bokor
	1	HLKS	Korea, South	Ceju (KBS)
960	2	3BO	Australia	Bendigo (AWA)
	2	4AY		Ayr (Ayr Broadc.)
	2	6TZ		Bunbury, W.A.
	2	6CI		Collie (Bc. St. 6TZ)
			China, P.R.	2 st's
	20	BED55	China, Taiwan	Taipei (BCC)
	5	JOTG	Japan	Aomori (NHK1)
	5	JOZK		Matsuyama (NHK1)
	1	JOSP		Saga (NHK1)
	1	JOLQ		Yonago (NHK1)
	1	JOUQ		Hagi (NHK1)
	10		Malaysia	Kuala Trengganu (English)
	10	3YC	New Zealand	Christchurch
	50	DZXL	Philippines	Bulacan (Chronicle Bc)
962	10		USSR	Kulyab, Tadzhikistan
965	20		India	Cuttack A
			Korea, North	Unknown
970	2	5DN	Australia	Adelaide (Hume B'casters)
	1.2		Brunei	Brunei Town (Malay/Chinese)
			China, P.R.	Peking, (Korean Prgr) + 4 st's
	1	BEV68	China, Taiwan	Kaohsiung (Feng Ming Bc)
	5	KPAU	Hawaii	Hilo
	1		India	Poona B
	1/0.5			Mysore/Amritsar
	100	HLSA	Korea, South	Seoul (KBS)
	2	1ZN	New Zealand	Whangarei (comm. adv)
	1	DYMB	Philippines	Cebu City (Metropolitan Bc)
	1		Vietnam, So.	Nhatrang
973	20	RV136	USSR	Yuzhno-Sakhalinsk
975			Korea, North	
	10		Thailand	Chiang Rai (local st)
	10			Nakhon Ratchasima (local)
980	2	6KG	Australia	Kalgoorlie (Whitford's Bc)
			China, P.R.	Peking
	3.5	BEC70	China, Taiwan	Taipei (Air Force Bc. St)
	5	JOFG	Japan	Fukui (NKH1)
	5	JOKG		Kofu (NHK1)
	1	JOIQ		Wakkanai (NHK1)
	20	2ZB	New Zealand	Wellington (comm. adv)
	1	DXYZ	Philippines	Zamboanga (Nation Bc)
	0.5	DZXM		Manila (Mabuhay Bc. Syst)
	1	DXGE		Davao City (Liberty Bc)
	1	HSMK	Thailand	Yala (R. Thailand)
	20		USSR	Garm, Tadzhikistan
				Krasnoyarsk
				Alma Ata
985	10		Thailand	Chiang Mai (local st)
990	2	2GZ	Australia	Orange (County Bc. Sces)
			China, P.R.	2 st's.
	1.5	BEV84	China, Taiwan	Nantou (Chung Hsing Bc. St)
	5	KTRG	Hawaii	Honolulu
	1		India	Jammu, Kashmir
	10	JORK	Japan	Kochi (NHK1)
	1	DYRP	Philippines	Iloilo (Allied Bc. Center)
	0.5	DXWB		Gingoog City
	0.5	DZAH		Baguio City (R. Phil. Net)
	20		Singapore	Singapore (Malay Sce)
	0.5	HS1PN	Thailand	Ploen Chit (Post and Telegraph)
1000	2	3HA	Australia	Hamilton (VBN)
	2	4RO		Rockhampton (RBC)
	2	6PM		Perth (WBN)
	120	XUD24	Cambodia	Phnom Penh (assigned fq. 1410kHz)
			China, P.R.	Peking
	0.1	BED62	China, Taiwan	Taipei (BCC)
	100		India	Rajpur
	10			Coimbatore
	1	JODG	Japan	Hamamatsu (NHK1)
	1	JORQ		Nakamura (NHK1)
	0.1			2 stations (NHK1)
	1	HLKT	Korea, South	Taegu (Christian Bc. Syst)
	1	HLCL		Kwangju (Christian Bc)
	10	1ZD	New Zealand	Tauranga (Comm. adv)
	10	DZMM	Philippines	Bulacan (Bolinao Elect)
	10	DXHP		Cagayan de Oro
1005			Korea, North	Hamhung (Prgr I) (v)
	0.25		Macau	Emissora Vila Verde
	10		Malaysia	Malacca (Malay Sce)
1007	1		Vietnam, So.	Hué

kHz	kW	Call	Country	Station/Location
1010	2	4CA	Australia	Cairne (AWA)
	2	4IP		Ipswich, Qld
	2	6GE		Geraldton (WBN)
	2	7EX		Launceston, Tasmania
			China, P.R.	Peking + 1 st
	1	BEV92	China, Taiwan	Taipei (Tien Nan. Bc. St)
	10		India	Coimbatore
	1			Pondicherry
	20	JONR	Japan	Osaka (ABC)
	10	APH1	Pakistan	Hyderabad
	5	DXJW	Philippines	Zamboanga (Chronicle Bc)
	5	DZRD		Dagupan (Nation Bc)
	1	DYRO		Roxas (Allied Bc Center)
	1	DZSJ		San José (R. Henry Canoy)
	1	DZFA		Sorgoson
	1		Thailand	Laksi (Post and Telegraph)
	1			Ploen Chit (Post and Telegraph)
	100		Vietnam, No.	Hanoi
	10		Vietnam, So.	Saigon (Prgr. A)
1020	5	2KY	Australia	Sydney
			China, P.R.	Changchun (Foreign Sce)
	3.5	BED53	China, Taiwan	Hsinchu (BCC)
	1	BEV60		Kaohsiung (Cheng Sheng)
	20		India	Delhi B
	0.5			Tanjore
	1	DZWX	Philippines	Baguio City (Northern Bc)
	1	DYSS		Cebu City
	1	DZQM		Lucena (Bolinao Electr)
	1	KSAB	Ryukyu Isl.	Naha, Okinawa (FEBC)
	10	ZCO	Tonga	Nuku'alofa
1025	200		USSR	Tomsk, Tomsk Oblast
1030	5	3DB	Australia	Melbourne (Herald Sun St)
	20		Ceylon	Colombo
			China, P.R.	Peking (or Kueiyang)
	1.5	BEV94	China, Taiwan	Taichung (Ming Tien Bc)
	1	BEV51	China, Taiwan	Taipei (Chung Hua Bc)
	10		India	Gauhati B
	0.1		Japan	20 Stations (NHK1)
	0.05			8 stations (NHK1)
	0.02			1 station (NHK1)
	1	HLCG	Korea, South	Hwachon (KBS)
	1	DZFE	Philippines	Bulacan (FEBC)
	0.66	VQO	Solomon Isl.	Honiara
1035			Korea, North	
1040	1	2UH	Australia	Muswellbrook (ABC 3rd)
	2	5PI		Crystal Brook, S.A.
			China, P.R.	Shanghai (Foreign Sce)
	1	BED26	China, Taiwan	Chiayi (BCC)
		BEV51		Taipei (Chung Hua Bc. St)
	5	KHVH	Hawaii	Honolulu
	50		India	Bombay A
	1		Korea, South	Chunchon (AFKN)
	10		Malaysia	Penang (Chinese/Indian)
	10	4ZB	New Zealand	Dunedin (comm. adv)
	5	DZDR	Philippines	Naga City (Northern Bc)
	1	DYMS		Palo, Leyte (MBC)
	5	DZRI		Dagupan (Bolinao Eletr)
1043	20/10	HSVSS1	Thailand	Bangkok (Wor Por Thor 1)
1045			Korea, North	Haeju
1050	2	2CA	Australia	Canberra (Canberra Broadc)
			China, P.R.	Peking + 6 st's
		BEC50	China, Taiwan	Linkou (Kuang Hua Net)
		BEC51		Kwangyin
	5	BEV74		Pingtung (Min Lih Bc)
	2		Hong Kong	Hong Kong (Comm. Bc. Co)
	1/0.5		India	Jaisalmer/Vizianagram
	10	JOAR	Japan	Nagoya (Chubu Nippon)
	10		Pakistan	Rangpur
	2.5	DXLL	Philippines	Zamboanga (Visayan Bc)
	5	DZEC		Rizal (Eagle B. Corp)
	1	DYSA		Iloilo City (Univ. St)
1052	50		USSR	Kurgan, Kurgan Oblast
1060	2	4SB	Australia	Kingaroy, Qld.
			China, P.R.	Kuangchou (Canton)
	1	BED43	China, Taiwan	Taichung (BCC)
	1	BEV82		Ilan (Min Pen Ilan Bc. St)
	5		India	Hyderabad B
	0.15			4 stations
	0.1		Japan	21 stations, private
	0.04			2 stations, private
	10	HLKQ	Korea, South	Chongju (KBS)
	2	2ZG	New Zealand	Gisborne (comm. adv)
	5	DZVR	Philippines	Laoag (Northern Bc. Net)
	1	DXKI		Cotabato (FEBC)
	1	HS2LS	Thailand	Laksi (Post & Telegraph)
1070	2	2RG	Australia	Griffith, N.S.W.
	2	6WB		Katanning (W.A. B'casters)
			China, P.R.	Peking + 1 st
	10	BED57	China, Taiwan	Taitung (BCC)
	2.4	BEV96		Tainan (Tien Nan St)
	20		India	Rajkot A
	10	JOFK	Japan	Hiroshima (NHK1)
	20		Malaysia	Kuala Lumpur (Chinese/Indian)
	10	1ZB	New Zealand	Auckland (comm. adv)
	10	DZWS	Philippines	Manila (Associated Bc)
	1	DYWX		Bacolod City (Visayan Bc)
	100		USSR	Ust Kamenogorsk, Kazakh

kHz	kW	Call	Country	Station/Location
1070	20		Thailand	Nakhon Si Thammarat
1079	50		USSR	Kyzyl, Tuvin Aut. Obl.
1080	2	2MO	Australia	Gunnedah, N.S.W.
	0.2	4MI		Mount Isa (ABC 3rd + reg)
	2	6IX		Perth (W.A. B'casters)
	2	7HT		Hobart (MBN)
			China, P.R.	Peking + 1 st.
	1	JOLC	Japan	Tottori (NHK2)
	1	JOHD		Takamatsu (NHK2)
	1	JOIC		Toyama NHK2)
	1	JOIT		Muroran (NHK2)
	1	JOOC		Obihiro (NHK2)
	0.1/0.05			4 stations (NHK2)
			Korea, North	Kaesong (Prgr. II)
	10		Pakistan	Rajshahi
	1	DXVA	Philippines	Butuan City (Liberty Bc)
	1	DYMX		Cebu City
1090	2	3LK	Australia	Lubeck (Herald-Sun)
			China, P.R.	2 st's
		BEH6	China, Taiwan	Taipei (Fu Hsing Bc) + 5 st's
		BEC31		Yunlin County (Mil)
	5	KHAI	Hawaii	Honolulu
	1		India	Kozhikode
	1			Calicut B
	10	JOHB	Japan	Sendai (NHK2)
	1	HLCH	Korea, South	Chungju (KBS)
	10	APL1	Pakistan	Lahore II
	1	DXCM	Philippines	Cotabato (Mindanao Bc)
	1	DYVP		Masbate (Northern Bc. Net)
	10	HSFL	Thailand	Nakhon Sawan (Thai Army)
	1		Vietnam, So.	Da Nang
1095			China, P.R.	Chungking, Szechuan
			Laos	Vientiane (Lao Armed Forces)
1100	2	4LG	Australia	Longreach, Qld.
	2	6MD		Merredin (W.A. B'casters)
	2	7LA		Launceston, Tasmania
	0.66		Brunei	Seria (English Sce)
			China, P.R.	Taiyuan (Yangku), Shansi
	100	BED97		Tamsui (BCC)
	0.5		India	Surat
	5	JOCF	Japan	Kagoshima (MBC)
	1	JOEL		Yamagata (YMC)
	1	JOGF		Oita (OBS)
	1	JOMF		Sasebo (Nagasaki Bc)
	1	JONF		Miyazaki (MBC)
	1	JOWO		Koriyama (FBC)
	0.02			2 stations, private
	5		Korea, South	Seoul (VUNC)
	10	3ZB	New Zealand	Christchurch (Comm. adv)
	10	DZMT	Philippines	Manila (Associated Bc)
	10	HSE1	Thailand	Bangkok (Terit. Defense)
1110	5	2UW	Australia	Sydney (Commonw. Bc)
			China, P.R.	5 st's
	1	BEC47	China, Taiwan	Kinmen Island
	1.5	BEC22		Taipei (Military)
	1	KIPA	Hawaii	Hilo
	20		India	Gulbarga
	5	JOMR	Japan	Kanzawa (Hokuriku Bc)
	1	JOBW		Hikone (Kinki Bc. Co)
	1	JOSR	Japan	Nagona City (SBC)
	0.1	JOKL		Kanonji (RNC)
	1	HLCQ	Korea, South	Taejon (Hankuk Munhwa)
	1	DXRC	Philippines	Cagayan de Oro (Mindanao)
	1	DYHR		Calbayog (Vanguard Radio)
1115			China, P.R.	Hsiamen (Amoy), Fukien
	0.25	HLSY	Korea, South	Yangku (KBS)
	50		USSR	Khanty Mansiysk
1120	2	4BC	Australia	Brisbane (Commonwealth Bc)
			China, P.R.	Peking + 2 st's
	0.5	BED72	China, Taiwan	Yuli (BCC)
	1.5	BEP26		Hsinchu (Police Bc. Net)
	1.5	BEP25		Kaohsiung (Police Bc)
	1		India	Srinagar A, Kashmir
	5	JOAF	Japan	Matsuyama (Nankai Bc)
	5	JODR		Niigata (BSN)
	0.1	JOHM		Hamada (BSS)
	1	DYRM	Philippines	Dumaguete (Allied Bc)
	1	DZXT		Tarlac (Filipinas Bc)
	10	WVUV	Samoa, American	Pago Pago
	10	HS2RN	Thailand	Bangkok (Thai Navy)
1125			China, P.R.	Taiyuan, Shansi
1130	2	2AD	Australia	Armidale (New England Net)
	2	3CS		Colac (Colac Bc. Co)
	2	6CI		Collie (MBN)
			China, P.R.	2 st's
		BEC75	China, Taiwan	Taipei (Min Fang Bc. St)
	2	BEV36		Yun Lin (Cheng Sheng Bc)
	10	KLEI	Hawaii	Kailua
	20		India	Calcutta B
	50	JOQR	Japan	Tokyo (Nippon Cultural)
	2	2ZM	New Zealand	Wellington (comm. adv)
	10	DZHP	Philippines	Manila (R. Mindanao Net)
	1	DYOR		Ormoc City (Visayan Bc)
	10		Thailand	Lampang (R. Thailand)

kHz	kW	Call	Country	Station/Location
1140	2	2HD	Australia	Newcastle (Airsales Pty)
			China, P.R.	Peking
	1		India	Trivandrum B
	10	JOBR	Japan	Kyoto (Kinki Bc. Co)
	5	HLCX	Korea, South	Chonju (Hankuk Munhwa)
	10		Malaysia	Kuantan (English Sec)
	2	1YW	New Zealand	Hamilton
	2		Pakistan	Sylhet
	1000		Philippines	Poro (Voice of America)
1146	10	HSQK	Thailand	Bangkok (Thai TV Co)
1150	2	2WG	Australia	Wagga Wagga (Riverina Bc)
	5	XZK8	Burma	Rangoon (Prgr. II) (v)
			China, P.R.	Peking
	3	BEG22	China, Taiwan	Taipei (China Youth Bc)
	10	JOPC	Japan	Kushiro (NHK2)
	10	JORB	"	Koochi (NHK2)
	0.25		Korea, South	2 st's (AFKN)
	1	HLCW		Wonju (KBS)
	10	APR1	Pakistan	Rawalpindi
	1	DYRD	Philippines	Tagbilaran
	0.3		Samoa, Western	Apia
			USSR	Khabarovsk
1151	100		USSR	Vladivostok
1160	2	4MB	Australia	Maryborough (MBC)
	2	5PA		Penola (ABC 3rd + reg)
			China, P.R.	Peking + 1st
	1	BED86	China, Taiwan	Ilan (BCC)
	1	BED39		Miaoli (BCC)
	1	BEV67		Kaohsiung (Feng Ming Bc)
			India	Dharwar B
	1	JODP	Japan	Fukuyama (NHK1)
	0.1			23 stations (NHK1)
	0.05			6 stations (NHK1)
	0.02			1 station (NHK1)
	10	HLKU	Korea, South	Pusan (Hankuk Munhwa Bc)
	0.25			Kwandae-Ri (AFKN)
	10		Malaysia	Malacca (English Sce)
	2	3ZC	New Zealand	Timaru (Comm. adv)
	5	DZMY	Philippines	Manila (Chronicle Bc)
	1	DXMV	Philippines	Cotabato (Mindanao Bc)
	10	HSQS	Thailand	Bangkok (Thai Police)
	1000		USSR	Dushanbé (Foreign Sce)
1170	5	2CH	Australia	Sydney
	1	BED80	China, Taiwan	Taitung (BCC)
	1	BEE32		Taipei (Ministry of Educ)
	1	KOHO	Hawaii	Honolulu
	2		Hong Kong	Hong Kong (Comm. Bc)
	5		India	Udaipur
	10	JOUK	Japan	Akita (NHK1)
	10	APD1	Pakistan	Dacca I
	5	DZWJ	Philippines	Lucena (Freedom Bc)
	1	DYLL		Tacloban (Visayan Bc)
	5	DZWN		Dagupan City (No. Bc)
1175			China, P.R.	Unknown, Anhuei
1178	1000		Ryukyu Isl.	Okinawa (VOA)
	30		USSR	Petropavlovsk, Kazakhstan
1180	5	3KZ	Australia	Melbourne
	50		India	Jabalpur
	2	2YW	New Zealand	Gisborne
	5	DYRF	Philippines	Cebu City
	2		Thailand	Bangkok (Min. of Educ)
1187	30		USSR	Ust Kamenogorsk, Kazakh
1190	2	2NZ	Australia	Inverell (Northern Bc)
			China, P.R.	Unknown (Foreign Sce)
	1	BED32	China, Taiwan	Hualien (BCC)
	1	BEV46		Taipei (Min Sheng Bc)
	2.4	BEV57		Tainan (Voice of Victory)
	10	JOKP	Japan	Kitami (NHK1)
	50	HLKX	Korea, South	Inchon
	5	DZRM	Philippines	Manila (Philippine Bc)
1196	30		USSR	Kzyl Orda, Kazakhstan
1198			China, P.R.	Amoy, Fuchou area
1200	2	4GG	Australia	Southport (Gold Coast R)
	2	5KA		Adelaide (5KA Broadc)
	100	BED50	China, Taiwan	Minhsiung (BCC)
		BEV71		Taipei (Shilin Hua Bc)
	20		India	Tirunelveli
	1			Bhopal B
	1			Shillong
	5	JOBF	Japan	Kumamoto (KBC)
	1	JOMO		Nanao (Hokuriku Bc. Co)
	1	JOFO		Kitakuushu (Mainichi)
	1	JOSW		Iida (Shinetsu Bc. Co)
	1	JOYF		Mito (Ibaraka Bc. Syst)
	0.1			1 station, private
	5		Korea, South	Tongduchon (AFKN Bayonet)
	0.25		Macau	Emissora de Macau
	2	2ZW	New Zealand	Wanganui (comm. adv)
	1	DYRH	Philippines	Bacolod City (Allied Bc)
	10	HSAF	Thailand	Don Muang Airport
	1		Vietnam, No.	Hanoi (Foreign Sc) (v)
	0.05		Vietnam, So	Dinh Tuong (v)
1210	2	2GF	Australia	Grafton (GBC)
	2	3YB		Warrnambool (ABS)
			China, P.R.	Peking + 2 st's
	1	KZOO	Hawaii	Honolulu
	1		India	Bhutan
1210	20	JOOR	Japan	Osaka (MBS)
	0.25	HLSW	Korea, South	Jongsun (KBS)
	1	DZMQ	Philippines	Dagupan City
	0.25	DZLB		Los Baños (Univ. st)
	1	DXSY		Ozamiz
	5	DZNL		Nalinae (Liberty Bc. Net)
	10	HSK24	Thailand	Surat Thani
1214	100		USSR	Omsk, Omsk Oblast
1220	2	4AK	Australia	Oakey (Brisbane)
			China, P.R.	Chengtu, Szechuan
	1	BED49	China, Taiwan	Kaohsiung (BCC)
	1	BEV71		Taipei (Hua Sheng)
	1		India	Chandigarh
	1/0.5			Hyderabad C/Patna
	10	JOJK	Japan	Kanazawa (NHK1)
	10		Malaysia	Johore Bahru (Chinese/Indian)
	0.1	WXLG	Marshall Isl.	Kwajalein (AFRTS)
	2	1ZE	New Zealand	Kaikohe
	1	DYRV	Philippines	Catbalogan, Samar
	1	DXSM		Jolo (Philippine Bc)
	0.25			Sangley Point (AFRTS)
1230	10	2NC	Australia	Newcastle (ABC 1st Net)
			China, P.R.	2 st's
	1.5	BEV58	China, Taiwan	Taichung (Cheng Sheng)
	25/0.5		India	Bombay C/Patiala
	1			Ranchi B
	5	JOGR	Japan	Aomori (ABC)
	5	JOUR		Nagasaki (NBC)
	1		Korea, South	2 st's (KBS)
	1	DZSA	Philippines	Manila (Delta Bc. Syst)
	1	DZAL		Legaspi (Visayan Bc. Syst)
	1	DXCB		Butuan (Visayan Bc. Syst)
	10		Thailand	Udon Thani (Wor Por Thor 7)
1240	2	3TR	Australia	Sale (VBN)
	2	8DN		Darwin (Darwin B'casters)
	20		Brunei	Tutong (Malay + Chinese)
			China, P.R.	Shenyang, Liaoning
	1	BEV62	China, Taiwan	Hsinchu (Tai Sheng Bc)
	20		India	Varanasi
	10	JOTK	Japan	Matsue (NHK1)
	1	HLCF	Korea, South	Sogwipo (KBS)
	5			Chulwon (VUNC)
	5	DZLT	Philippines	Lucena (Luzonian College)
			Vietnam, No.	Hanoi (Foreign Sce)
1250	2	2DU	Australia	Dubbo (Western B'casters)
			China, P.R.	2 st's
	1.5	BEC29	China, Taiwan	Kaohsiung (Military Bc. St)
	2		Hong Kong	Hong Kong (BFBS)
	20		India	Sangli
	0.1		Johnston Isl.	Air Force Base (AFRTS)
	2	1ZM	New Zealand	Auckland
	2	9PA	Papua & New Guinea	Port Moresby (ABC)
	5	DZTR		Bulacan (Northern Bc)
	5	KSDX	Ryukyu Isl.	Naha, Okinawa (FEBC)
	100		USSR	Vladivostok (Foreign Sce)
1253	1		Vietnam, So.	Qui Nhon
1256	1	HSK32	Thailand	Thon Buri (R. Thailand)
1260	2	3SR	Australia	Shepparton (ABS)
			China, P.R.	Changsha, Hunan
	10	BEP22	China, Taiwan	Taipei (Police Bc. Net)
	1		India	Mercara
	1			Shillong
	10	JOIR	Japan	Sendai (TBC)
	10		Malaysia	Ipoh (Chinese/Indian Sce.)
	5	DYVM	Philippines	Cebu City (Ce. Philip. Bc)
1268	10		USSR	Fergana, Uxbekistan
1270	5	2SM	Australia	Sydney
			China, P.R.	6 st's
	1	BEV37	China, Taiwan	Taitung (Cheng Sheng Bc)
	1			Chihshang (Cheng Sheng)
	5	KNDI	Hawaii	Honolulu
	10/1		India	Agartala/Jaipur B
	10	JOFR	Japan	Fukuoka (Mainichi Bc)
			Korea, North	Unknown (v)
	50		Korea, South	Kanghwa Island (VUNC)
	5	DZYE	Philippines	Camarines Sur (Northern Bc)
	0.5	DZBW		Baguio (Liberty Bc)
1276	10		Thailand	Bangkok
1280	100		Afghanistan	Kabul
	5	3AW	Australia	Melbourne (R. Melbourne)
			China, P.R.	Tienching Hopeh
	1	BED47	China, Taiwan	Tainan (BCC)
		BEC40		Fuhsingkang (Armed Forces)
	1		India	Jamshedpur
	5	JOHW	Japan	Obihiro (HBC)
	5	JOJR		Tokushima (Shikoku Bc. Co)
	10		Malaysia	Malacca (Chinese/Indian)
	2	2ZC	New Zealand	Napier (Comm. adv)
	5	DYRI	Philippines	Iloilo (Visayan Bc)
	10	DZBJ		Bulacan (R. Philippines Net)
1284			Korea, North	Kim-chaek (Prgr. I) (v)
1290	2	2TM	Australia	Tamworth, N.S.W.
			China, P.R.	3 st's

kHz	kW	Call	Country	Station/Location
1290	1.5	BEC27	China, Taiwan	Taichung (Military Bc. St)
	20		India	Bhuj
	10	JOHR	Japan	Sapporo (HBC)
	1	DZEB	Philippines	Canaman (Philip. Bc)
	1	DZYQ		Batangas (Mabuhay Bc)
	10	HSFI	Thailand	Ubol (Thai Army)
	10			Chon Buri (Thai Army)
1295			China, P.R.	Amoy-Fuchou area
1300	2	4BK	Australia	Brisbane, Qld.
			China, P.R.	Peking + 3 st's
	1	BEV23	China, Taiwan	Taipei (Min Pen St)
	20		India	Parbhani
	5	JOHP	Japan	Takamatsu (NHK1)
	1	JOLG		Tottori (NHK1)
	1	JOOK		Kyoto (NHK1)
	1	JOTQ		Hachinohe (NHK1)
	1			Komagane (NHK1)
	0.1			4 stations (NHK1)
	0.05			2 stations (NHK1)
	0.3		Laos	Vientiane (local sce)
	1	DXSO	Philippines	Marawi City (Philip. Bc)
	0.5	DZNN		Makati, Rizal (Freedom Bc)
	0.25			3 st's (AFRTS)
	1		Thailand	Bangsue (Yan Kro)
	0.1			Takhli (AFRTS)
1304	50		USSR	Tselinograd, Kazakhstan
1305			Korea, North	Chongjin
1310	2	5AD	Australia	Adelaide (Adv. Bc)
	0.25		Ceylon	Anuradhapura
			China, P.R.	Peking + 7 st's
		BEV57	China, Taiwan	Tainan (Voice of Victory)
		BEV76		Chunan (Tien Sheng St)
	5	KNUI	Hawaii	Wailuku, Maui
	50	JOLF	Japan	Tokyo (NBS)
	2	1ZH	New Zealand	Hamilton
	1	DZUW	Philippines	Malabon (Republic Bc)
	1	DYML		Tagbilaran (Visayan Bc)
1313			USSR	Vladivostok/Khabarovsk
1315	1	XUD26	Cambodia	Phnom Penh
	50		USSR	Chita, Chitin Oblast
1320	2	3BA	Australia	Ballarat, Vic.
	2	4NA		Nambour (Moroochy Bc)
	2	6KY		Belmont (Suntimes Bc)
			China, P.R.	2 st's
	1	BEV45	China, Taiwan	Taipei (Min Sheng Bc. St)
	2		Fiji	Lautoka (English Sce)
	10		India	Rampur
	1			Dharwar
	1	JOJP	Japan	Tsuruoka (NHK1)
	0.1			2 low power (NHK1)
	0.25	HLCU	Korea, So.	Wollungdo (KBS)
	0.4			Seoul (Voice of Hope)
	1	DYRX	Philippines	Roxas City (Visayan Bc)
	1	DZYV		
	10	HSK	Thailand	Tung Mahamek (Air Force)
	1			Sattahip (Air Operations)
1330	2	3SH	Australia	Swan Hill, Vic (VBN)
	2	4BU		Bundaberg, Qld.
			China, P.R.	Peking + 7 st's
	1.5	BEC36	China, Taiwan	Tsoying (Military)
	20		India	Bikaner
	0.35			Tezu
	10	JOSF	Japan	Nagoya (Tokai Bc. Co)
	1	DYVN	Philippines	Bay Bay, Leyte Isl.
	1	DZYG		Cabanatuan (Vanguard R)
1331	30		USSR	Tashkent, Uzbekistan
	50			Tobolsk, Tyumen Obl.
1333	10		Thailand	Bangkok (Dusit Palace)
1335			Korea, North	Unknown, Prgr. I
1340	2	2LF	Australia	Young (Young B'casters)
	1	XED27	Cambodia	Phnom Penh
			China, P.R.	Peking + 3 st's
		BEC48	China, Taiwan	Matsu Island (Kwang Hua)
	1	BEV35		Taipei (Cheng Sheng Bc)
	0.1		Japan	16 stations (NHK1)
	0.05			7 stations (NHK1)
	1	HLCY	Korea, South	Yosu (KBS)
	2	2ZN	New Zealand	Nelson (comm. adv)
	5	DZBC	Philippines	Bulacan (Bolinao Electr)
1345			China, P.R.	Hsinhailien, Kiangsu (v)
	10	HSKU	Thailand	Ubon (R. Thailand)
1348			China, P.R.	Lienyünchiang (Kiangsu)
1350	2	3GL	Australia	Geelong (Geelong Bc)
	2/1	4GY		Gympie (GBC)
	1.5	BEC33	China, Taiwan	Hualien (Military Bc. St)
	1	BED63		Chiayi (BCC)
	5	KTOH	Hawaii	Lihue, Kauai
	1		India	Cuttack B/Jullundur
	10	JOER	Japan	Hiroshima (RCC)
	1	KJQR	Trust Terr.	Saipan
	2	1ZC	New Zealand	Rotorua (comm. adv)
	2/1	DZYS	Philippines	Santiago (Mabuhay Bc)
	1	DZYR		San Fernando (Mabuhay)
	1	DXRP		Davao City (Philip. Bc)
	1		Thailand	Yala (Thai Army)
1355			China, P.R.	Yingkou, Liaoning
1360	2	2NX	Australia	Bolwarra (Hunter B'casters)
	50		China, P.R.	Peking + 4 st's
	1	BEV50	China, Taiwan	Taipei (Chunghua St)

kHz	kW	Call	Country	Station/Location
1360		BEV84	China, Taiwan	Nantao (Cluing Hsing st)
	10		India	Dharwar A
	0.1		Japan	21 stations (NHK2)
	0.05			6 stations (NHK2)
	1		Korea, South	Osan (AFKN "Comet")
	1	DZRA	Philippines	Virac, Catanduanes
	1	DZXQ		Manila (Mabuhay Bc. Syst)
	5	DYRL		Bacolod (Visayan Bc)
	100	KSBU	Ryukyu Isl.	Okuma, Okinawa (FEBC)
	0.1		Thailand	Korat (AFRTS)
	0.05		Vietnam, So.	10 stations (AFRTS)
1367	30		USSR	Petropavlovsk, Kazakhstan
1370	0.5	2LT	Australia	Lithgow
	2	4LM		Mt. Isa, Qld.
	0.5	5SE		Mt. Gambier (Adv. Bc)
			China, P.R.	7 st's
		BEV96	China, Taiwan	Tainan (Tien Sheng St)
	10		India	Delhi C
	10	JORU	Japan	Hirosaki (NHK2)
	5	JOUC		Yamaguchi (NHK2)
	1	JONB		Nagano (NHK2)
	1	JOCZ		Takayama (NHK2)
	1	JOSD		Saga (NHK2)
	1	JOAZ		Nayoro (NHK2)
	0.1	JOJV		Nanao (NHK2)
	2	2ZP	New Zealand	New Plymouth (comm. adv)
	2.5	DYVR	Philippines	Roxas City (Panay Bc)
	0.5	DZBS		Baguio City (R. Philippines)
			Singapore	Singapore (Chinese/Tamil)
	1	HSPK	Thailand	Patani (R. Thailand)
1375			China, P.R.	2 st's
1376	10		USSR	Vladivostok (Foreign Sce)
1380	2	2GN	Australia	Goulburn (GBC)
	2	4MK		Mackay (MBS)
			China, P.R.	3 st's
	1	BED23	China, Taiwan	Taichung (BCC)
	1	BEV70		Shihlin (Hua Sheng)
	5	KPOI	Hawaii	Honolulu
	1		India	Kurnool
	20	JOUF	Japan	Osaka (OBC)
	10	DZTM	Philippines	Bulacan (Associated Bc)
	1		Thailand	Phitsanulok (Mil)
1385	0.25	WXLE	Marshall Isl.	Eniwetok (AFRTS)
1390	2	4BH	Australia	Brisbane (Maquarie Bc)
			China, P.R.	3 st's
	1	BED87	China, Taiwan	Hsinchu (BCC)
	1	BEV62		Hsinchu (Tai Sheng St)
	10		India	Imphal
	5			Gwalior
	10	JOOC	Japan	Morioka (NHK2)
	10	JOJB		Kanazawa (NHK2)
	10	JOHC		Kagoshima (NHK2)
	0.1	1ZT	New Zealand	Turangi
	1	DXRM	Philippines	Marawi City
1394	50		USSR	Bulun, Yakut ASSR
1400	2	2PK	Australia	Parkes (PBC)
			China, P.R.	6 st's
	1	BED65	China, Taiwan	Ilan (BCC)
	3.5	BEV98		Kaohsiung (Cheng Kung St)
	0.1	VKW	Cocos Island	Keeling (Austr. Civil Air Dept)
	1		India	Ahmedabad B
	1/0.5			Kharagpur/Chandigarh
	1	JOOL	Japan	Kushiro (HBC)
	5	JOVR		Shizuoka (SBS)
	0.5	JO3H		Hamamatsu (SBS)
	0.1	JOVO		Unknown (SBS)
	10	HLKP	Korea, South	Pusan (Christian Bc. Syst)
	1	HLCM		Iri (Christian Bc. Syst)
	1			Unchon-Ni (AFKN Gypsy)
1400	0.02		Maldives	Gan Island (RAF Base)
	2	3ZM	New Zealand	Christchurch (comm. adv)
	4		Tahiti	Papeete
	1	HSJS4	Thailand	Bangkok (Army Sign. Corps)
1410	2	2KO	Australia	Newcastle, N.S.W.
	120	XUD24	Cambodia	Phom Penh (rep. on 1000)
			China, P.R.	3 st's
	1	BED54	China, Taiwan	Miaoli (BCC)
	1	BED88		Taitung (BCC)
		BED67		Unknown (BCC)
	10	JOIF	Japan	Fukuoka (KABC)
	1	DZUP	Philippines	Quezon City (Univ. St)
	5	DYMR		Cebu City (Philipp. Bc)
	0.1		Thailand	Udorn (AFRTS)
1420	5	3XY	Australia	Melbourne (Efftee Broadc)
			China, P.R.	Chengchou, Honan (v)
	5	KCCN	Hawaii	Honolulu
	1		India	Allahabad B
	1			Madras B/Rajkot B
	10	JORF	Japan	Yokohama (R. Kanto)
	0.25	HLCP	Korea, South	Pohang (KBS)
	8		New Caledonia	Noumea
	2	1ZO	New Zealand	Tokoroa
	1	DZOR	Philippines	Olongapo (Freedom Bc)
	1	DYRS		San Carlos (Allied Bc)
	10	2AP	Samoa, West	Apia
	0.05		Vietnam, So.	Quang Nam
	0.25			Dalat
1430	2	2WL	Australia	Wollongong, N.S.W.

kHz	kW	Call	Country	Station/Location
1430			China, P.R.	Fuchou, Fukien (v)
		BEC73	China, Taiwan	Taichung (Air Force St)
	1		India	Aurangabad
	3	JOVF	Japan	Wakayama (WBC)
	1	JOGO		Hachinohe (ABC)
	1	JOZF		Gifu (R. Gifu Bc. Co)
	0.1	JOBO		Maizuru (KBS)
	0.05	JO4D		Kushimoto (WPC)
	0.25	4XD	New Zealand	Dunedin (private)
	1	DZLM	Philippines	Queson City (R. Mareco)
1435	20	XUD28	Cambodia	Phnom Penh (nom. 1540)
1440	2	2MW	Australia	Murwillumbah
	2	3CV		Maryborough (VBN)
			China, P.R.	4 st's
	1	BEC60	China, Taiwan	Taipei (Air Force St)
	1		India	3 st's
	1			Port Blair (Andaman Isl)
	1	JOJP	Japan	Tusuruoka (NHK1)
	1	JOZU		Uwajima (NHK1)
	0.1/0.05			4 stations (NHK1)
	1		Korea, South	2 st's (AFKN)
	1	WSZO	Trust Terr.	Majuro
	2	1ZK	New Zealand	Kaitaia (comm. adv)
	1	DYOO	Philippines	Iloilo City (Rep. Bc. Syst)
	1		Vietnam, So.	Dalat
1445	0.4		Malaysia	Camp Butterworth (RAAF)
1450	2	2MG	Australia	Mudgee (MBC)
	2	5AU		Port Augusta, S.A.
	1	WSZD	Trust Terr.	Ponape, Sanyavin Island
			China, P.R.	7 st's
	3.5	BED48	China Taiwan	Kaohsiung (BCC)
	0.1		Christmas Isl.	Christmas Island
	0.5		India	Warangal
	5	JOKF	Japan	Takamatsu (Nishi Nippon)
	5	JOQM		Abashiri (HBC)
1460	2/1	2NM	Australia	Muswellbrook, N.S.W.
	2/1	5MU		Murray Bridge, S.A.
			China, P.R.	2 st's
	1	BED82	China, Taiwan	Chiayi (BCC)
	20		India	Jeypore
	5	JOWF	Japan	Sapporo (STV Bc)
	1	JOPL		Hagi (YBC)
	1	JOUO		Saga (NBC)
	0.1			Kobayashi (MRT)
	2	3YW	New Zealand	Westport
	10	DZBU	Philippines	Manila (Manila Daily)
	10	HS3RN	Thailand	Phuket (Royal Navy)
1466	30		USSR	Frunze, Kirghizstan
1470	2	3MA	Australia	Mildura, Vic.
1470			China, P.R.	Peking + 2 st's
	1	BED81	China, Taiwan	Hualien (BCC)
	0.1			3 st's (BCC + priv)
	10		India	Bhagalpur
	1	JOCC	Japan	Asahikawa (NHK2)
	1	JODD		Onomichi (NHK2)
	1	JOID		Oita (NHK2)
	1	JOKC		Kofu (NHK2)
	1	JOMC		Miyazaki (NHK2)
	1	JOVB		Hakodate (NHK2)
	0.5	JOIY		Wakkanai (NHK2)
	0.1			3 stations (NHK2)
	1	DYWW	Philippines	Bacolod (Liberty Bc)
	20		Thailand	Bangkok (Territ. Defense)
1475			USSR	Khabarovsk
1480	2/1	2BE	Australia	Bega, N.S.W.
	2/1	4ZR		Roma (Maranoa Bc. Co)
	1	WSZA	Trust Terr.	Yap
			China, P.R.	Peking + 2 st's
		BEV76	China, Taiwan	Miaoli (Tien Sheng St)
	1		India	Jaipur A/Tiruchi B
	2		Intern. Waters	R. Hauraki (on board "Tiri" outside New Zealand)
	1	JOMX	Japan	Nobeoka (NHK2)
	1	JOHV		Naze (NHK2)
	0.5	JOSZ		Iida, (NHK2)
	0.1			2 st's (NHK2)
	0.25		Korea, South	3 st's (KBS)
	1			Taejon (AFKN)
	1/0.5	DZJS	Philippines	Pasig (Delta Bc. Syst)
	1	DYKR		Kalibo (Visayan Bc)
	1	DZGK		Sorgoson (Visayan Bc)
1482			China, P.R.	Chingtechen
1490	2	2AY	Australia	Albury (AWA)
			China, P.R.	8 st's
	3	BEC39	China, Taiwan	Penghwa (Military)
	1		India	Kohima
	1			Srinager C, Kashmir
	0.5			Indore/Mysore
	5	JOYR	Japan	Okayama (Sanyo Bc. Co)
	1	JOTL		Nayoro (HBC)
	0.1	JOWM		Obihiro (STV Sapporo)
	0.05	JOSA		Kasaoka (RSK)
	1	DXOC	Philippines	Ozamiz City (Filipinas Bc)
	0.5	DYAV		Cebu City
	0.25	KEAD	Wake Isl.	Wake Island (AFRTS)
1495	7		Maldive Isl.	Malé (nom. fq. 1507)
1500	0.015	KMSA	Antarctica	McMurdo Sound (A.F. Base)
	2	2BS	Australia	Bathurst, N.S.W.

kHz	kW	Call	Country	Station/Location
1500	5	3AK	Australia	Melbourne
	1	WSZC	Trust Terr.	Moen, Truk Islands
	1	WSZB		Koror, Palau Island
			China, P.R.	Peking + 2 st's
	1	BED83	China, Taiwan	Mobile BCC st
	0.1			2 st's (BCC + priv)
	5	KUMU	Hawaii	Honolulu
	10/1		India	Viyavawada B/Patna B
	0.1		Japan	3 stations (private)
	0.25	9NBM	Nepal	Kathmandu
	2	1ZA	New Zealand	Taupo
	2.5	DZCP	Philippines	Manila (Philipp. Bc)
	50	HS1TV	Thailand	Bangkok (Thai TV Co)
	0.05		Vietnam, South	Soc Trang (AFRTS)
	0.1		Volcano Isl.	Iwo Jima (FEN)
1502	10		USSR	Alma Atá, Kazakhstan
	10			Dushanbé, Tadzhikistan
1507	7		Maldive Isl.	Malé (rep. on 1495)
1510	10	2NA	Australia	Newcastle (ABC 2nd Net)
			China, P.R.	2 st's
			China, Taiwan	5 st's (Fu Hsing Bc. St)
	0.5		India	Amraoit
	5	JOZB	Japan	Matsuyama (NHK2)
	1	JOCD		Koriyama (NHK2)
	1	JOJD		Tsuruoka (NHK2)
	1	JOOB		Kyoto (NHK2)
	1	JOSC		Matsumoto (NHK2)
	1	JOTZ		Hachinohe (NHK2)
	0.05/0.5			3 st's (NHK2)
	0.25		Korea, South	2 st's (AFKN)
	1	DZEQ	Philippines	Baguio City (Philipp. Bc)
	0.25	KIBS	Phoenix Isl.	Canton Island
1520	2	2QN	Australia	Deniliquin, N.S.W.
			China, P.R.	3 st's
		BEC30		Ilan (Military)
	5		India	Bhopal A
	1	JODC	Japan	Hamamatsu (NHK2)
	1	JOTC		Aomori (NHK2)
	1	JOFC		Fukui (NHK2)
	1	JOJC		Yamagata (NHK2)
	1	JOLU		Yonago (NHK2)
	1	JOXB		Tokushima (NHK2)
	0.1			4 st's (NHK2)
	1	1ZU	New Zealand	Taumarumui
	1		Philippines	Cebu City (Rep. Bc. Syst)
	1			Clark Field (AFRTS)
	5	DZEM		Rizal
	20		Thailand	Bangkok (Thai Army)
	0.1			U Taphao (AFRTS)
	20		USSR	Kustanay, Kazakhstan
1525	2000		China, P.R.	Urumchi (Foreign Sce)
			USSR	Khabarovsk
1527			China, P.R.	Unknown
1530	2/0.5	2VM	Australia	Moree (MBC)
	0.2	5LN		Port Lincoln (ABC 3rd)
	0.05	8AL		Alice Springs (ABC 3rd)
			China, P.R.	3 st's
	2		Hong Kong	Comm. Bc. Co. (Engl. Sce)
	1/0.5		India	Mathura/Trichur
	1	JODO	Japan	Naoetsu (BSN)
	1	JOAM		Uwajima
	1	JOFX		Utsunomiya (+ 1st 0.1kW)
	1	HLKL	Korea, South	Namwon (KBS)
	10	HSFP	Thailand	Uttaradit (Thai Army)
	50		USSR	Anadyr, Magadan Oblast
1538	10		USSR	Chelyabinsk
1540	2	2CN	Australia	Canberra (ABC 1st Net)
	20		Cambodia	Phnom-Penh (rep. on 1435)
			China, P.R.	2 st's
	1	BED78	China, Taiwan	Tainan (BCC)
	2.5		India	Calcutta C
	0.1		Japan	15 stations (NHK2)
	0.05			3 stations (NHK2)
	0.25	HLKZ	Korea, South	Sunchon (KBS)
	1	2ZE	New Zealand	Blenheim (comm. adv)
	5	DZME	Philippines	Calgocan (Liberty Bc)
	20	HS1CC	Thailand	Sara Buri (Thai Army)
	0.25		Vietnam, South	Soc Trang (AFRTS)
				Probably Saigon, VTVN (varies 1540-1546kHz)
1546	10		USSR	Karaganda, Kazakhstan
1546			Thailand	Bangkok (Mil, nom. 1570)
1550	50	4QD	Australia	Emerald (ABC 3rd + reg)
			China, P.R.	Pingliang, Kansu
	2.5		India	Madras C
	1/0.5			Ajmer/Gaya
	10		Japan	Itazuke (FEN)
	10	DYLA	Philippines	Cebu City (Voice of Labor)
	20		Thailand	Bangsue (Yan Kro)
			USSR	Khabarovsk Vicinity
1554	20		USSR	Tomsk, Tomsk Oblast
1560	2	2RE	Australia	Taree, N.S.W.
			China, P.R.	2 st's
	5		China, Taiwan	Taipei (AFRTS)
	20		India	Siliguri
	0.1		Japan	14 stations (Private)
	0.05			3 stations (Private)
	1	2ZH	New Zealand	Hawera (comm. adv)
	0.5	DZAT	Philippines	Manila (College of Arts)

kHz	kW	Call	Country	Station/Location
1568			China, P.R.	Changsha, Hunan
1570	0.05	2CP	Australia	Cooma (ABC 3rd + reg)
	0.2	2LG		Lithgow (ABC 3rd + reg)
	0.2	3WL		Warrnambool (ABC 3rd + reg)
	0.2	4GM		Gympie (ABC 3rd + reg)
			China, P.R.	3 st's
	10		Hawaii	Honolulu
	20/1		India	Delhi D/Mathura
	0.25		Japan	2 st's (FEN)
	1	HLCS	Korea, South	Sokcho (KBS)
	0.05	VL2NI	Norfolk Isl.	Kingston
	10	HSIA	Thailand	Bangkok (rep. on 1546)
			USSR	Yuzhno-Sakhalinsk
	10			Semipalatinsk, Kazakh
1575			China, P.R.	Unknown
1580	2	2WN	Australia	Wollongong (ABC 3rd + reg)
	0.2	5MG		Mount Gambier (ABC 3rd + reg)
	0.05	5WM		Woomera (ABC 3rd + reg)
			China, P.R.	Huhehot, Inner Mongolia
	1		China, Taiwan	Taichung (AFRTS)
	1/0.1		Japan	3 st's (FEN)
	0.5	DZFU	Philippines	Manila (Feati University)
	5	DZSE		Gubat (Freedom Bc)
	1000		Thailand	Ban Phachi (VOA)
1586	20		USSR	Kurgan, Tyumen Oblast
				Khabarovsk
1590	0.2	4SO	Australia	Southport (ABC 3rd + reg)
	2	5MV		Renmark (ABC 3rd + reg)
			China, P.R.	5 st's
			China, Taiwan	Tainan (AFRTS)
	10		India	Indore B
	10	JOGB	Japan	Kumamoto (NHK2)
	10	JOQB		Niigata (NHK2)
	10	JOTB		Matsue (NHK2)
	1	DYDR	Philippines	Cebu City (Central Bc)
1594	50		USSR	Irkutsk, Irkutsk Oblast
1600	2/1	3NE	Australia	Wangaratta (WBC)
	2	6PH		Port Headland, W.A.
			China, P.R.	Unknown, Kirin
		BED77	China, Taiwan	Unknown (BCC)
	5	JOKB	Japan	Okayama (NHK2)
	1	JOGV		Hitoyoshi (NHK2)
	1	JOAC		Nagasaki (NHK2)
	1	JOSB		Kokura (NHK2)
	1	JOZY		Uwajima (NHK2)
	1			Enbetsu (NHK2)
	0.5	JOUZ		Hagi (NHK2)
	0.1			4 stations (NHK2)
	0.05			2 stations (NHK2)
	10	DZCH	Philippines	Bulacan (Nat. Council of Churches)

NORTH AMERICA (incl. Mexico)

compiled by the National Radio Club, USA

Explanation of listing:—
FIRST COLUMN — Call letters and location are required identification for U.S. and Canadian st's. each half hour. Symbols in front of the call letters are as follows: *Construction Permit for new station, not yet on air. †Construction permit for move to this frequency from a different frequency. In parenthesis, frequency and/or power changes will be designated by two symbols — CP, Construction Permit, and PO, Presently Operating.
SECOND COLUMN — In addition to the standard abbreviations for U.S. and Mexican states, and Canadian provinces, certain geographical city and town names have been abbreviated. These include: Bch., — Beach; Cd. — Ciudad; Cy. — City; E. — East; Ft. — Fort; Hts. — Heights; Mt. — Mount; Mtn. — Mountain; No. — North; Pk. — Park; So. — South; Spgs. — Springs; St. — Saint; Ty. — Territory; and W. — West.
FOURTH COLUMN — Contains authorized operating hours and directional antenna information. The symbols mean as follows: D is daytime operation (between local sunrise and local sunset), D1 without directional antenna, D3 with directional antenna. (Under a new ruling of the F.C.C. certain daytime st's can operate between 0600 local time and sunrise when it is later than 0600 with reduced power); L is limited time, and means a st. West of the dominant st. can operate from as early as sunrise at the dominant st's location; A st. east of the dominant st. can operate as late as the dominant st's. sunset. Number indicates directional pattern as under "U" below. SH equals "Specified Hours" and usually means a st. that would normally operate unlimited time files a schedule of reduced hours with the FCC because of economic reasons. ST means "Shares Time". This usually finds a college, university, or church st. on the air two or three hours a day, during which time the commercial st. signs off. U means the st. is authorized to operate any time up to 24 hours a day. U1 means without directional antenna; U2 means with directional antenna at night; U3 means directional antenna, same pattern, day and night; U4 means directional antenna, different pattern day and night; U5 means directional antenna daytime, non-directional at night. Two Canadian st. are listed N, night only. The operators of these st's. have st's. on other frequency which operate daytime only: 710/730; 710/1230kHz.

Call	Location	kW	Hrs.
540kHz			
KVIP	Redding, Calif.	1	D1
WGTO	Cypress Gardens, Fla.	50	D3
WDAK	Columbus, Ga.	5/0.5	U2
KWMT	Fort Dodge, Iowa	5	D3
KNOE	Monroe, La.	5/1	U4
WETC	Wendell-Zebulon, N.C.	5	D3
WDXN	Clarksville, Tenn.	1	D1
WRIC	Richlands, Va.	1	D1
CBT	Grand Falls, Nfld.	10	U1
CBEF	Windsor, Ont.	2.5	U3
CBK	Watrous, Sask.	50	U1
XEWA	San Luis Potosi, S.L.P.	150	U2
+ low power: 5 US/6 Can/1 Mex.			
550			
KENI	Anchorage, Alaska	5	U1
KOY	Phoenix, Ariz.	5/1	U1
KAFY	Bakersfield, Calif.	1	U2
KRAI	Craig, Colo.	1.5	U2
WAYR	Orange Park, Fla.	1	D1
WGGA	Gainesville, Ga.	5/0.5	U2
KFRM	Salina, Kans.	5	D3
WCBI	Columbus, Miss.	1/0.5	U4
KSD	St. Louis, Mo.	5	U2
KBOW	Butte, Mont.	5/1	U2
WGR	Buffalo, N.Y.	5	U2
KFYR	Bismarck, N.D.	5	U2
WKRC	Cincinnati, Ohio	5/1	U3
KOAC	Corvallis, Ore.	5	U4
WHLM	Bloomsburg, Pa.	1	U4
WPAB	Ponce, P.R.	5/1	U1
WXTR	Pawtucket, R.I.	1/0.5	U2
KCRS	Midland, Tex.	5/1	U4
KTSA	San Antonio, Tex.	5	U2
WDEV	Waterbury, Vt.	5/1	U4
WSVA	Harrisonburg, Va.	5/1	U2
KARI	Blaine, Wash.	1/0.5	U4
WSAU	Wausau, Wis.	5	U4
CKPG	Prince George, B.C.	10/5	U4
CFNB	Fredericton, N.B.	50	U4
CFBR	Sudbury, Ont.	1	D1
CHLN	Trois-Rivieres, Que.	10/5	U4
XEAF	Guadalajara, Jal.	1	U1
XEUC	Tehuantepec, Oax.	1	U1
XEKL	Xalapa, Ver.	1/0.5	U1
XEQW	Merida, Yuc.	5	U1
560			
WOOF	Dothan, Ala.	5	D1
KYUM	Yuma, Ariz.	1	U2
KSFO	San Francisco, Calif.	5/1	U1
KLZ	Denver, Colo.	5	U3
WQAM	Miami, Fla.	5/1	U1
WIND	Chicago, Ill.	5	U4
WGAN	Portland, Me.	5	U3
WFRB	Frostburg, Md.	1	D1
WHYN	Springfield, Mass.	5/1	U3
WEBC	Duluth, Minn.	5	U4
KWTO	Springfield, Mo.	5	U2
KMON	Great Falls, Mont.	5	U2
WGAI	Elizabeth City, N.C.	1/0.5	U4
WFIL	Philadelphia, Pa.	5	U4
WIS	Columbia, S.C.	5	U2
WHBQ	Memphis, Tenn.	5/1	U4
KLVI	Beaumont, Tex.	5	U2
KPQ	Wenatchee, Wash.	5	U2
WJLS	Beckley, W. Va.	5/0.5	U2
CKNL	Fort St. John, B.C.	1	U2
CHTK	Prince Rupert, B.C.	1/0.25	U1
CHCM	Marystown, Nfld.	1/0.5	U1
CJKL	Kirkland Lake, Ont.	5	U2
CFOS	Owen Sound, Ont.	1	U4
CKCN	Sept-Iles, Que.	10/5	U3
XEOC	Mexico, D.F.	1/0.5	U1
+ low power: 2 US/2 Can.			
570			
WAAX	Gadsden, Ala.	5/0.5	U2
KCNO	Alturas, Calif.	5	D1
KLAC	Los Angeles, Calif.	5	U2
WACL	Waycross, Ga.	5/1	U2
WKYX	Paducah, Ky.	1/0.5	U4
WGMS	Bethesda, Md.	5/1	U4
WVMI	Biloxi, Miss.	1	D1
KGRT	Las Cruces, N.M.	5	D1
WMCA	New York, N.Y.	5	U3
WSYR	Syracuse, N.Y.	5	U4
WWNC	Asheville, N.C.	5	U2
WKBN	Youngstown, Ohio	5	U2
WNAX	Yankton, S.D.	5	U2
WFAA	Dallas, Tex.	5	ST4
WBAP	Fort Worth, Tex.	5	ST4
KLUB	Salt Lake City, Utah	5	U3
KVI	Seattle, Wash.	5	U1
CKEK	Cranbrook, B.C.	1	U3
CKCQ	Quesnel, B.C.	1	U4
CJFM	Edmundston, N.B.	5/1	U2
CFCB	Corner Brook, Nfld.	1	U1
CFWH	Whitehorse, Yukon Ty.	1	U1
XETJ	Torreon, Coah.	1/0.25	U1
XELQ	Morelia, Mich.	1	U1
XEBJB	Monterrey, N.L.	5/0.25	U1
XEOA	Oaxaca, Oax.	5/0.25	U1
XENZ	Culiacan, Sin.	1/0.25	U1
XEVX	Comalcalco, Tab.	1	U1
——	Godthaab, Greenland	25	U1
+ low power: 3 US			
580			
KIKX	Tucson, Ariz.	5/0.5	U2
KMJ	Fresno, Calif.	5	U1
KUBC	Montrose, Colo.	5/1	U2
WDBO	Orlando, Fla.	5	U2
WGAC	Augusta, Ga.	5/1	U2
KFXD	Nampa, Idaho	5	U2
WILL	Urbana, Ill.	5	D3
KSAC	Manhattan, Kans.	5/0.5	ST1
WIBW	Topeka, Kans.	5	ST2
KALB	Alexandria, La.	5/1	U2
WTAG	Worcester, Mass.	5	U4

Call	Location	kW	Hrs.
WELO	Tupelo, Miss.	1/0.5	U4
KANA	Anaconda, Mont.	1	D1
KWIN	Ashland, Ore.	1	U4
WHP	Harrisburg, Pa.	5	U2
WKAQ	San Juan, P.R.	5	U1
WRKH	Rockwood, Tenn.	1	D1
WCHS	Charleston, W. Va.	5	U2
WKTY	LaCrosse, Wis.	5/1	U4
CKUA	Edmonton, Alta.	5/1	U4
CKXR	Salmon Arm, B.C.	1	U4
CKY	Winnipeg, Man.	50	U4
CJFX	Antigonish, N.S.	10	U3
CKAP	Kapuskasing, Ont.	1	U3
CFRA	Ottawa, Ont.	50/10	U4
CKPR	Port Arthur, Ont.	5/1	U1
CHLC	Hauterive, Que.	5/2.5	U4
XEMU	Piedras Negras, Coah	5/0.25	U1
XEUE	Tuxtla Gutierrez, Chis.	1	U1
XEFI	Chihuahua, Chih.	5/0.25	U1
XEAV	Guadalajara, Jal.	5	U1
XEHP	Cd. Victoria, Tams.	1/0.25	U1
XEDZ	Cordoba, Ver.	1	U1
+ low power: 5 US/2 Can.			
590			
WKAG	Carrollton, Ala.	1	D1
KHAR	Anchorage, Alaska	5	U1
KBHS	Hot Springs, Ark.	5	D1
KFXM	San Bernardino, Calif.	1	U4
KTHO	So. Lake Tahoe, Calif.	1	D1
KCSJ	Pueblo, Colo.	1	U3
WDLP	Panama City, Fla.	1	U2
WPLO	Atlanta, Ga.	5	U2
KID	Idaho Falls, Ida.	5/1	U2
WRTH	Wood River, Ill.	1/0.5	U4
WVLK	Lexington, Ky.	5/1	U4
WEEI	Boston, Mass.	5	U3
WKZO	Kalamazoo, Mich.	5	U2
WJMS	Ironwood, Mich.	5/1	U2
WOW	Omaha, Nebr.	5	U1
WROW	Albany, N.Y.	5/1	U4
WGTM	Wilson, N.C.	5	U4
KUGN	Eugene, Ore.	5/1	U2
WARM	Scranton, Pa.	5	U4
WMBS	Uniontown, Pa.	1	U2
KTBC	Austin, Tex.	5/1	U2
KSUB	Cedar City, Utah	1	U2
WLVA	Lynchburg, Va.	1	U4
KHQ	Spokane, Wash.	5	U1
CFTK	Terrace, B.C.	1	U3
CFAR	Flin Flon, Man.	10/1	U5
VOCM	St. John's, Nfld.	10	U2
CKEY	Toronto, Ont.	10/5	U3
CKRS	Jonquierre, Que.	1	U4
XEPH	Mexico, D.F.	5	U1
XEE	Durango, Dgo.	1	U1
XEFD	Rio Bravo, Tams.	5/0.25	U1
+ low power: 2 US/2 Can/1 Mex.			
600			
WIRB	Enterprise, Ala.	1	D1
KCLS	Flagstaff, Ariz.	5/0.5	U2
KVCV	Redding, Calif.	1	U3
KOGO	San Diego, Calif.	5	U3
KZIX	Fort Collins, Colo.	1	D3
WICC	Bridgeport, Conn.	1/0.5	U3
WPDQ	Jacksonville, Fla.	5	U2
WMT	Cedar Rapids, Iowa	5	U2
WWOM	New Orleans, La.	1	D1
WFST	Caribou, Me.	5	D1
WCAO	Baltimore, Md.	5	U3
WLST	Escanaba, Mich.	1	D3
WTAC	Flint, Mich.	1/0.5	U3
KGEZ	Kalispell, Mont.	1	U4
WCVP	Murphy, N.C.	1	D1
WSJS	Winston-Salem, N.C.	5	U4
KSJB	Jamestown, N.D.	5	U3
WFRM	Coudersport, Pa.	1	D1
WAEL	Mayaguez, P.R.	1	U3
WREC	Memphis, Tenn.	5	U4
KROD	El Paso, Tex.	5	U2
KERB	Kermit, Tex.	1	D3
KTBB	Tyler, Tex.	1	U2
WVAR	Richmond, W. Va.	1	D1
CJOR	Vancouver, B.C.	10	U3
*	St. Anthony, Nfld.	10	U4
CKCL	Truro, N.S.	1	U3
CFCH	North Bay, Ont.	10/5	U4
CFCF	Montreal, Que.	5	U3
CFQC	Saskatoon, Sask.	5	U2
XEDN	Torreon, Coah.	1	U1
XEBB	Acapulco, Gro.	5/1	U1
XEZ	Merida, Yuc.	2	D1
+ low power: 1 US/2 Can/3 Mex.			
610			
WSGN	Birmingham, Ala.	5/1	U2
KAVL	Lancaster, Calif.	1/0.5	U4
KFRC	San Francisco, Calif.	5	U1
WTOR	Torrington, Conn.	1/0.5	U4
WIOD	Miami, Fla.	5	U4
KDAL	Duluth, Minn.	5	U2
WDAF	Kansas City, Mo.	5	U1
KOJM	Havre, Mont.	1	U4
KCSR	Chadron, Neb.	1	D1
WGIR	Manchester, N.H.	5/1	U4
KGGM	Albuquerque, N.M.	5	U2
WAYS	Charlotte, N.C.	5/1	U4
WTVN	Columbus, Ohio	5	U2
WIP	Philadelphia, Pa.	5	U3
KILT	Houston, Tex.	5	U4
KVNU	Logan, Utah	5/1	U2
WSLS	Roanoke, Va.	5/1	U4
KEPR	Kennewick-Richland-Pasco, Wash.	5	U4
CKYL	Peace River, Alta.	10/1	U2
*	Kamloops, B.C.	1/0.5	U3
CJAT	Trail, B.C.	1	U1
CHTM	Thompson, Man.	1	U1
CKTB	Ste. Catherines, Ont.	10/5	U3
CKML	Mont Laurier, Que.	1	U1
CHNC	New Carlisle, Que.	10/5	U3
XEBX	Sabinas, Coah.	5/0.5	U1
XEUF	Uruapan, Mich.	5/1	U1
XEKZ	Tehuantepec, Oax.	1	U1
XECV	Cd. Valles, S.L.P.	1/0.25	U1
XEGS	Guasave, Sin.	5	U1
XEJA	Xalapa, Ver.	1	U1
XEEL	Fresnillo, Zac.	1	U1
+ low power: 4 US/1 Can.			
620			
KTAR	Phoenix, Ariz.	5	U2
KNGS	Hanford, Calif.	1	U2
KWSD	Mt. Shasta, Calif.	1	D1
KSTR	Grand Junction, Colo.	1	D1
WSUN	St. Petersburg, Fla.	5	U2
WTRP	La Grange, Ga.	1	D1
KWAL	Wallace, Ida.	1	U2
KMNS	Sioux City, Iowa	1	U4
WLBZ	Bangor, Me.	5	U2
WJDX	Jackson, Miss.	5/1	U2
WVNJ	Newark, N.J.	5	U4
WHEN	Syracuse, N.Y.	5/1	U2
WDNC	Durham, N.C.	5/1	U4
KGW	Portland, Ore.	5	U3
WHJB	Greensburg, Pa.	1/0.5	U4
WATE	Knoxville, Tenn.	5	U4
KWFT	Wichita Falls, Tex.	5	U2
WVMT	Burlington, Vt.	5	U4
WWNR	Beckley, W. Va.	1/0.5	U2
WTMJ	Milwaukee, Wis.	5	U2
*	Prince George, B.C.	10	U2
CKCM	Grand Falls, Nfld.	10	U3
CFCL	Timmins, Ont.	10/5	U4
CKCK	Regina, Sask.	5	U2
XEBU	Chihuahua, Chih.	5	U1
XENK	Mexico, D.F.	10/5	U2
XECK	Durango, Dgo.	1/0.1	U1
XEOO	Tepic, Nay.	1	U1
XEACM	Villa Hermosa, Tab.	1	U1
+ low power: 2 US.			
630			
WAVU	Albertville, Ala.	1	D1
WJDB	Thomasville, Ala.	1	D1
KYAK	Anchorage, Alaska	5	D1
KJNO	Juneau, Alaska	1/0.5	U1
KVMA	Magnolia, Ark.	1	D1
KIDD	Monterey, Calif.	1	U4
KHOW	Denver, Colo.	5	U2
WMAL	Washington, D.C.	5	U3
WSAV	Savannah, Ga.	5	U2
KIDO	Boise, Idaho	5	U4
WLAP	Lexington, Ky.	5/1	U3
WJMS	Ironwood, Mich.	1	U2
KDWB	St. Paul, Minn.	5/0.5	U4
KXOK	St. Louis, Mo.	5	U4
KGVW	Belgrade, Mont.	1	D1
KOH	Reno, Nev.	5/1	U2
WIRC	Hickory, N.C.	1	D1
WMFD	Wilmington, N.C.	1	U4
KWRO	Coquille, Ore.	5	D1
WKYN	San Juan, P.R.	1	U2
WPRO	Providence, R.I.	5	U2
KMAC	San Antonio, Tex.	5	U4
KSXX	Salt Lake City, Utah	1	D3
KGDN	Edmonds, Wash.	5	D1
CHED	Edmonton, Alta.	10	U1
CKOV	Kelowna, B.C.	1	U1
CKRC	Winnipeg, Man.	10	U2
CFCO	Chatham, Ont.	10/1	U4
CKAR	Huntsville, Ont.	1	U3
CJET	Smith Falls, Ont.	10	U4
CFCY	Charlottetown, P.E.I.	10	U4
CHLT	Sherbrooke, Que.	10/5	U4
XETS	Tapachula, Chis.	1/0.25	U1
XEACA	Acapulco, Gro.	1	U1
XEFB	Monterrey, N.L.	10	U4
XETK	Mazatlan, Sin.	1/0.25	U1
XEFU	Cosamaloapan, Ver.	5/0.75	U1
+ low power: 5 US/2 Can/2 Mex.			
640			
KFI	Los Angeles, Calif.	50	U1
WOI	Ames, Iowa	5	D1
WHLO	Akron, Ohio	1	L3
WNAD	Norman, Okla.	1	D1
CBN	St. John's, Nfld.	10	U1
650			
WSM	Nashville, Tenn.	50	U1
XEZM	Zamora, Mich.	5	D1
XETNT	Los Mochis, Sin.	1	D1
	Godhavn, Greenland	5	U1
+ low power: 1 US/1 Mex.			
660			
KFAR	Fairbanks, Alaska	10	U1
WNBC	New York, N.Y.	50	U1
WESC	Greenville, S.C.	10	SH3
KSKY	Dallas, Texas	10	D1
XERPM	Mexico, D.F.	10	U2
670			
KBOI	Boise, Ida.	50/25	U2
WMAQ	Chicago, Ill.	50	U1
XETOR	Torreon, Coah.	1	D1
XEIS	Cd. Guzman, Jal.	1	D1
680			
KNBR	San Francisco, Calif.	50	U1
WWBA	St. Petersburg, Fla.	1	D1
WRNG	No. Atlanta, Ga.	5	D1
WCTT	Corbin, Ky.	1	U2
WCBM	Baltimore, Md.	10/5	U4
WRKO	Boston, Mass.	50	U3
WDBC	Escanaba, Mich.	10/1	U4
KFEQ	St. Joseph, Mo.	5	U4
WINR	Binghampton, N.Y.	1/0.5	U4
WPTF	Raleigh, N.C.	50	U2
WAPA	San Juan, P.R.	10	U1
WMPS	Memphis, Tenn.	10/5	U2
KBAT	San Antonio, Tex.	50/10	U2
KOMW	Omak, Wash.	1	D1
WCAW	Charleston, W. Va.	10/0.25	U2
CHFA	Edmonton, Alta.	5	U3
CJOB	Winnipeg, Man.	10/2.5	U2
CJCN	Grand Falls, Nfld.	10	U4
CHLO	St. Thomas, Ont.	1	U3
CKGB	Timmins, Ont.	10	U4
CHFI	Toronto, Ont.	1/10	U4
XEKQ	Tapachula, Chis.	5	U1
XEFO	Chihuahua, Chih.	1	D1
XELG	Leon, Gto.	10/5	U2
XEFJ	Teziutlan, Pue.	1	U2
XEORO	Guasave, Sin.	1	D1
+ low power: 2 US.			
690			
WVOK	Birmingham, Ala.	50	D3
††KEOS	Flagstaff, Ariz.	1/0.5	U4
WAPE	Jacksonville, Fla.	50/10	U2
KBLI	Blackfoot, Ida.	1	D1
KGGF	Coffeyville, Kans.	10/5	U4
WTIX	New Orleans, La.	10/5	U4
KSTL	St. Louis, Mo.	1	D1
KEYR	Terrytown, Nebr.	1	D3
KRCO	Prineville, Ore.	1	D1
KUSD	Vermillion, S.D.	1	D3
KHEY	El Paso, Tex.	10	U4
KZEY	Tyler, Tex.	1	D3
WCYB	Bristol, Va.	10	D1
CBU	Vancouver, B.C.	10	U3
CBF	Montreal, Que.	50	U1
XETRA	Tijuana, B.C.	50	U4
XEN	Mexico, D.F.	20	U1
+ low power: 10 US/1 Can/1 Mex.			
700			
WLW	Cincinnati, Ohio	50	U1
XEAR	Guadalajara, Jal.	1	D1
XEVC	Cordoba, Ver.	0.5	D1
710			
WKRG	Mobile, Ala.	1/0.5	U2
KMPC	Los Angeles, Calif.	50/10	U2
KBTR	Denver, Colo.	5	U3
WGBS	Miami, Fla.	50	U4
WUFF	Eastman, Ga.	1	D1
WROM	Rome, Ga.	1	D1
KEEL	Shreveport, La.	50/5	U4
WHB	Kansas City, Mo.	10/5	U4
WOR	New York, N.Y.	50	U3
WKJB	Mayaguez, P.R.	1/0.5	U1
KGNC	Amarillo, Tex.	10	U4
KIRO	Seattle, Wash.	50	U2
WDSM	Superior, Wis.	5	U2
CJOX	Grand Bank, Nfld.	1	U1
CHYR	Leamington, Ont.	1	D3
CKVM	Ville-Marie, Que.	10/1	U2
CFRG	Gravelbourg, Sask.	5	D1
XERL	Colima, Col.	1	U1
XEON	Tuxtla Gutierrez, Chis.	2	U1
XEMP	Mexico, D.F.	1.2/0.6	U1
XEKU	Acapulco, Gro.	1	U1
XEBL	Culiacan, Sin.	5	U1
+ low power: 2 US/2 Mex.			

Call	Location	kW	Hrs.
720			
WGN	Chicago, Ill.	50	U1
*	Las Vegas, Nev.	50/10	U2
730			
WJMW	Athens, Ala.	1	D1
WLOR	Thomasville, Ga.	5	D1
KLOE	Goodland, Kans.	1	D1
WFMW	Madisonville, Ky.	1	D1
WMTC	Vancleve, Ky.	1	D1
WJTO	Bath, Me.	1	D1
WACE	Chicopee, Mass.	5	D1
KWOA	Worthington, Minn.	1	D1
KWRE	Warrenton, Mo.	1	D1
KVOD	Albuquerque, N.M.	1	D3
WDOS	Oneonta, N.Y.	1	D1
WFMC	Goldsboro, N.C.	1	D1
WOHS	Shelby, N.C.	1	D1
WMGS	Bowling Green, Ohio	1	D3
KBOY	Medford, Ore.	1	D1
WNAK	Nanticoke, Pa.	1	D1
WPIT	Pittsburgh, Pa.	5	D1
WPAL	Charleston, S.C.	1	D1
WLIL	Lenoir City, Tenn.	1	D1
KSVN	Ogden, Utah	1	D1
WPIK	Alexandria, Va.	5	D3
WMNA	Gretna, Va.	1	D3
KULE	Ephrata, Wash.	1	D1
WXMT	Merrill, Wis.	1	D1
CKLG	Vancouver, B.C.	10	U4
CKDM	Dauphin, Man.	10/5	U2
CJNR	Blind River, Ont.	1	U2
CKAC	Montreal, Que.	50	U3
XEX	Mexico, D.F.	150	U3
+low power: 6 US/4 Can/7 Mex.			
740			
WBAM	Montgomery, Ala.	50	D3
KMEO	Phoenix, Ariz.	1	D3
KBIG	Avalon, Calif.	10	D3
KCBS	San Francisco, Calif.	50	U4
KSSS	Colorado Springs, Colo	1/0.25	U4
KVFC	Cortez, Colo.	1/0.25	U2
WSBR	Boca Raton, Fla.	1	D3
WKIS	Orlando, Fla.	5/1	U2
WNOP	Newport, Ky.	1	D3
KPBM	Carlsbad, N.M.	1	D1
WGSM	Huntingdon, N.Y.	5	D3
WMBL	Morehead City, N.C.	1	D1
WPAQ	Mt. Airy, N.C.	10	D1
KRMG	Tulsa, Okla.	50/25	U4
WVCH	Chester, Pa.	1	D1
WIAC	San Juan, P.R.	10	U3
WBAW	Barnwell, S.C.	1	D1
KTRH	Houston, Tex.	50	U4
KCMC	Texarkana, Tex.	1	U3
CBX	Edmonton, Alta.	50	U1
CBL	Toronto, Ont.	50	U1
+low power: 8 US/9 Can.			
750			
KFQD	Anchorage, Alaska	10	U1
WSB	Atlanta, Ga.	50	U1
WBMD	Baltimore, Md.	1	D1
KMMJ	Grand Island, Nebr.	10	L3
WHEB	Portsmouth, N.H.	1	L1
KXL	Portland, Ore.	50	L3
WPDX	Clarksburg, W. Va.	1	D1
760			
KFMB	San Diego, Calif.	5	U2
WJR	Detroit, Mich.	50	U1
WCPS	Tarboro, N.C.	1	D1
WORA	Mayaguez, P.R.	5	U3
XEABC	Mexico, D.F.	5	U4
XEDGO	Durango, Dgo.	1	D1
XEZZ	Guadalajara, Jal.	5	D1
XEEQ	San Luis Potosi, S.L.P.	0.25	D1
770			
KUOM	Minneapolis, Minn.	5	STD1
WCAL	Northfield, Minn.	5	STD1
WEW	St. Louis, Mo.	1	D1
KOB	Albuquerque, N.M.	50	U2
WABC	New York, N.Y.	50	U1
KXA	Seattle, Wash.	1	L1
+low power: 2 Mex.			
780			
WBBM	Chicago, Ill.	50	U1
WJAG	Norfolk, Nebr.	1	L1
WCKB	Dunn, N.C.	1	D1
WBBO	Forest City, N.C.	1	D1
*	Reno, Nev.	50	U2
WAVA	Arlington, Va.	1	D1
+low power: 2 US.			
790			
WTUG	Tuscaloosa, Ala.	1	D1
KCAM	Glenallen, Alaska.	5	U1
KCEE	Tucson, Ariz.	5/0.5	U3
KOSY	Texarkana, Ark.	1/0.5	U2
KABC	Los Angeles, Calif.	5	U2
WLBE	Leesburg-Eustis, Fla.	5/1	U2
WPFA	Pensacola, Fla.	1	D1
WFUN	South Miami, Fla.	5	U4
WQXI	Atlanta, Ga.	5/1	U2
WGRA	Cairo, Ga.	1	D1
KEST	Boise, Ida.	1	D1
KBRV	Soda Springs, Ida.	5	D1
KXXX	Colby, Kans.	5	D1
WAKY	Louisville, Ky.	5/1	U4
WRUM	Rumford, Me.	1	D1
WSGW	Saginaw, Mich.	5/1	U4
KGHL	Billings, Mont.	5	U2
WWNY	Watertown, N.Y.	1	U2
WLSV	Wellsville, N.Y.	1	D1
WTNC	Thomasville, N.C.	1	D1
KFGO	Fargo, N.D.	5	U2
KWIL	Albany, Ore.	1	U4
WAEB	Allentown, Pa.	1	U4
WPIC	Sharon, Pa.	1	D1
WEAN	Providence, R.I.	5	U4
WWBD	Bamberg-Denmark, S.C.	1	D1
WETB	Johnson City, Tenn.	1	D1
WMC	Memphis, Tenn.	5	U2
KTHT	Houston, Tex.	5	U4
KFYO	Lubbock, Tex.	5/1	U4
KUTA	Blanding, Utah	1	D1
WSIG	Mt. Jackson, Va.	1	D1
WTAR	Norfolk, Va.	5	U2
KGMJ	Bellingham, Wash.	5/1	U2
KJRB	Spokane, Wash.	5	U2
WEAQ	Eau Claire, Wis.	5	U2
CFCW	Camrose, Alta.	10	U4
CKMR	Newcastle, N.B.	1	U3
	Corner, Brook, Nfld.	10	U1
CFDR	Dartmouth, N.S.	5	U3
CHIC	Brampton, Ont.	1/0.5	U1
CKSO	Sudbury, Ont.	10/5	U4
XEBI	Aguascalientes, Ags.	1/0.25	U1
XESU	Mexicali, B.C.	1	D1
XENT	La Paz, B.C.S.	5/7.5	U1
XEGZ	Torreon, Coah.	1/0.25	U1
XERPC	Chihuahua, Chih.	5	U1
XERC	Mexico, D.F.	10	U1
XEVA	Villa Hermosa, Tab.	5	U1
XEFE	Nuevo Laredo, Tams.	1/0.5	U1
+low power: 2 US.			
800			
WHOS	Decatur, Ala.	1	D1
WMGY	Montgomery, Ala.	1	D1
KINY	Juneau, Alaska	5	U1
WLAD	Danbury, Conn.	1	D1
*WRKV	Rockville, Conn.	1	D3
WSUZ	Paltaka, Fla.	1	D1
WJAT	Swainsboro, Ga.	1	D1
KXIC	Iowa City, Iowa	1	D3
WSHO	New Orleans, La.	1	D3
WCCM	Lawrence, Mass.	1	D1
KREI	Farmington, Mo.	1	D1
WTMR	Camden, N.J.	5	D3
KPDQ	Portland, Ore.	1	D1
WCHA	Chambersburg, Pa.	1	D1
WDSC	Dillon, S.C.	1	D1
WDEH	Sweetwater, Tenn.	1	D1
WSVS	Crewe, Va.	5	D1
WKEE	Huntington, W. Va.	5	D1
WDUX	Waupaca, Wis.	5	D3
†CJJC	Langley, B.C.	5	U4
CKOK	Penticton, B.C.	10/0.5	U1
VOWR	St. John's, Nfld.	1	U3
CJBQ	Belleville, Ont.	1	U3
CFOB	Fort Francis, Ont.	1/0.5	U1
CJLX	Fort William, Ont.	10/5	U3
CKLW	Windsor, Ont.	50	U4
CJAD	Montreal, Que.	50/10	U4
CHRC	Quebec, Que.	50	U4
CHAB	Moose Jaw, Sask.	10	U2
XEMMM	Tijuana, B.C.	1	D1
XELO	Cd. Juarez, Chih.	150	U1
XEAN	Ocotlan, Jal.	1	D1
+low power: 10 US			
810			
KGO	San Francisco, Calif.	50	U3
KWSR	Rifle, Colo.	1	D1
*WEKG	Jackson, Ky.	1	D1
WSJC	Magee, Miss.	50/0.25	U4
KCMO	Kansas City, Mo.	50/10	U2
KAFE	Santa Fe, N.M.	5	D1
WGY	Schenectady, N.Y.	50	U1
WKBC	No. Wilkesboro, N.C.	1	D1
WCEC	Rocky Mount, N.C.	1	D1
WEDO	McKeesport, Pa.	1	D1
WKVM	San Juan, P.R.	25	U3
WQIZ	St. George, S.C.	5	D1
KBHB	Sturgis, S.D.	5	D1
WMTS	Murfreesboro, Tenn.	5	D1
KWDR	Del Rio, Tex.	1	D1
CHQR	Calgary, Alta.	10	U4
*	Winnipeg, Man.	10	U3
XEOE	Tapachula, Chis.	1	U1
XEUX	Tuxpan, Nay.	5	D1
XERSV	Cd. Obregon	5	D1
XEFW	Tampico, Tams.	50	U2
+low power: 5 US/2 Mex.			
820			
WAIT	Chicago, Ill.	5	L1
WOSU	Columbus, Ohio	5	L1
WFAA	Dallas, Tex.	50	ST1
WBAP	Fort Worth, Tex.	50	ST1
XESB	Santa Barbara, Chih.	1	D1
XEBA	Guadalajara, Jal.	1	D1
XEKG	Fortin de las Flores, Ver.	1	D1
	Frederikshaab, Greenland	5	U1
830			
WCCO	Minneapolis, Minn.	50	U1
KBOA	Kennett, Mo.	1	D1
WNYC	New York, N.Y.	1	L3
XELA	Mexico, D.F.	10	U3
XENSM	Culiacan, Sin.	1	D1
840			
WTUF	Mobile, Ala.	1	D1
WRYM	New Britain, Conn.	1	D1
WHAS	Louisville, Ky.	50	U1
XEFG	Celaya, Gto.	1	D1
+low power: 1 US/1 Mex.			
850			
WYDE	Birmingham, Ala.	10/1	U2
KICY	Nome, Alaska	5	U1
KGKO	Benton, Ark.	1	D1
KOA	Denver, Colo.	50	U1
WRUF	Gainesville, Fla.	5	U2
WEAT	W. Palm Beach, Fla.	1	U3
WHDH	Boston, Mass.	50	U4
WKBZ	Muskegon, Mich.	1	U3
KFUO	Clayton, Mo.	5	L1
WKIX	Raleigh, N.C.	10/5	U2
WJW	Cleveland, Ohio	10/5	U4
WJAC	Johnstown, Pa.	10	U3
WEEU	Reading, Pa.	1	U2
WIVK	Knoxville, Tenn.	50	D3
WRAP	Norfolk, Va.	5/1	U4
KTAQ	Tacoma, Wash.	10/1	U4
CKRD	Red Deer, Alta.	10/1	U2
CJJC	Langley, B.C.	1	U4
CKVL	Verdun, Que.	50/10	U4
XEAL	Manzanillo, Col.	1/0.25	U1
XEM	Chihuahua, Chih.	5	D1
XEMIA	Guadalajara, Jal.	1	D1
XEUS	Hermosillo, Son.	1	U1
XETQ	Orizaba, Ver.	100/10	U2
+low power: 2 US/2 Mex.			
860			
WAMI	Opp, Ala.	1	D1
KIFN	Phoenix, Ariz.	1	D1
KOSE	Osceola, Ark.	1	D1
KTRB	Modesto, Calif.	10/1	U4
WKKO	Cocoa, Fla.	1	D1
WERD	Atlanta, Ga.	1	D1
WDMG	Douglas, Ga.	5	U2
KOAM	Pittsburgh, Kans.	10/5	U2
WAYE	Baltimore, Md.	1	D3
KNUJ	New Ulm, Minn.	1	D1
WFMO	Fairmount, N.C.	1	D1
KSHA	Medford, Ore.	1	D1
WAMO	Pittsburgh, Pa.	1	D3
WLBG	Laurens, S.C.	1	D1
KSFA	Nacogdoches, Tex.	1	D1
KONO	San Antonio, Tex.	5/1	U2
KWHO	Salt Lake City, Utah	1	D1
WEVA	Emporia, Va.	1	D1
WOAY	Oak Hill, W. Va.	10	D1
CFPR	Prince Rupert, B.C.	10	U3
CHAK	Inuvik, N.W.T.	1	U1
CBH	Halifax, N.S.	10	U2
CJBC	Toronto, Ont.	50	U1
XEMO	Tijuana, B.C.	5	U1
XEUN	Mexico, D.F.	5	U1
XEDU	Durango, Dgo.	1/0.25	U1
XERK	Tepic, Nay.	1	U1
XENL	Monterrey, N.L.	5	U2
XENW	Culiacan, Sin.	1/0.25	U1
XEZX	Tenosique, Tab.	1/0.15	U1
+low power: 15 US/23 Can.			
870			
WWL	New Orleans, La.	50	U3
WKAR	East Lansing, Mich.	5	D1
WHCU	Ithaca, N.Y.	5/1	L1
WGTL	Kannapolis, N.C.	1	D1
WHOA	San Juan, P.R.	5	U3
WFLO	Farmville, Va.	1	D1
+low power: 2 US.			
880			
†KRVN	Lexington, Nebr.	50	U4
WCBS	New York, N.Y.	50	U1
WRRZ	Clinton, N.C.	1	D1
WRFD	Worthington, Ohio	5	D1
XETZ	Tequilla, Jal.	1	D1

Call	Location	kW	Hrs.
XEEM	Rio Verde, S.L.P.	1	D1
890			
WLS	Chicago, Ill.	50	U1
WHNC	Henderson, N.C.	1	D1
KBYE	Oklahoma City, Okla.	1	D1
900			
WATV	Birmingham, Ala.	1	D1
WGOK	Mobile, Ala.	1	D3
WOZK	Ozark, Ala.	1	D1
KFRB	Fairbanks, Alaska	10	U1
KHOZ	Harrison, Ark.	1	D1
KBIF	Fresno, Calif.	1	D1
WJWL	Georgetown, Del.	1	D1
WSWN	Belle Glade, Fla.	1	D1
WMOP	Ocala, Fla.	5	D1
WCGA	Calhoun, Ga.	1	D1
WEAS	Savannah, Ga.	5	D1
WFIA	Louisville, Ky.	1	D1
WLSI	Pikeville, Ky.	5	D1
WCME	Brunswick, Me.	1	D1
WLMD	Laurel, Md.	1	D1
WATC	Gaylord, Mich.	1	D1
KTIS	Minneapolis, Minn.	1	D1
WDDT	Greenville, Miss.	1	D1
KFAL	Fulton, Mo.	1	D1
KJSK	Columbus, Nebr.	1	D1
WOTW	Nashua, N.H.	1	D1
WBRV	Boonville, N.Y.	1	D1
WAYN	Rockingham, N.C.	1	D1
WIAM	Williamston, N.C.	1	D1
KFNW	Fargo, N.D.	1	D1
WCPA	Clearfield, Pa.	1	D1
WFLN	Philadelphia, Pa.	1	D3
WKXV	Knoxville, Tenn.	1	D1
KALT	Atlanta, Tex.	1	D1
WAFC	Staunton, Va.	1	D1
KUEN	Wenatchee, Wash.	1	D1
CJVI	Victoria, B.C.	10	U3
CKDH	Amherst, N.S.	1	U4
CKDR	Dryden, Ont.	1/0.25	U1
CHML	Hamilton, Ont.	5	U3
CHNO	Sudbury, Ont.	10/1	U4
CJBR	Rimouski, Que.	10	U2
CKJL	St. Jerome, Que.	1	U3
CKTS	Sherbrooke, Que.	1	U3
CKVD	Val d'Or, Que.	10/2.5	U3
CKBI	Prince Albert, Sask.	10	U4
XEW	Mexico, D.F.	250	U1
+low power: 13 US/4 Can/1 Mex.			
910			
KPHO	Phoenix, Ariz.	5	U2
KLCN	Blytheville, Ark.	5	D1
KAMD	Camden, Ark.	5/0.5	U4
KDEO	El Cajon, Calif.	1	U4
KNEW	Oakland, Calif.	5	U2
KOXR	Oxnard, Calif.	5/1	U4
KPOF	Denver, Colo.	5/1	SH1
WRCH	New Britain, Conn.	5	U4
WPLA	Plant City, Fla.	1	D1
WGAF	Valdosta, Ga.	5	U2
KBGN	Caldwell, Ida.	1	D1
WSUI	Iowa City, Iowa	5	SH4
WLCS	Baton Rouge, La.	1	U3
WABI	Bangor, Me.	5	U2
WFDF	Flint, Mich.	5/1	U4
WCOC	Meridian, Miss.	5/1	U1
KOYN	Billings, Mont.	1	D1
KBIM	Roswell, N.M.	5/0.5	U2
WRKL	New City, N.Y.	1	D3
WLAS	Jacksonville, N.C.	5	D1
KCJB	Minot, N.D.	1	U2
WBRJ	Marietta, O.	5	D3
WPFB	Middletown, O.	1/0.1	U1
KGLC	Miami, Okla.	1	U3
KURY	Brookings, Ore.	1	D1
WAVL	Apollo, Pa.	1	D1
WGBI	Scranton, Pa.	1/0.5	U1
WSBA	York, Pa.	5/1	U4
WPRP	Ponce, P.R.	5/0.5	U1
WORD	Spartanburg, S.C.	5/1	U4
WJCW	Johnson City, Tenn.	5/1	U2
KNAF	Fredericksburg, Tex.	1	D1
KRIO	McAllen, Tex.	5/1	U4
KRRV	Sherman, Tex.	1	U3
KALL	Salt Lake City, Utah	5/1	U2
WNHV	White River Junction, Vt.	1	D1
WRNL	Richmond, Va.	5	U2
WPXI	Roanoke, Va.	1	D1
KORD	Pasco, Wash.	1	D1
KIXI	Seattle, Wash.	1	U3
KISN	Vancouver, Wash.	5	U4
WHSM	Hayward, Wis.	5	D1
WDOR	Sturgeon Bay, Wis.	1	D1
CJDV	Drumheller, Alta.	5	U4
CFJC	Kamloops, B.C.	10/1	U1
CKLY	Lindsay, Ont.	1	U3
CBO	Ottawa, Ont.	5	U3
CHRL	Roberval, Que.	1	U2
XEHO	Cd. Obregon, Son.	1/0.25	U1
+low power: 4 US/1 Can/1 Mex.			
920			
WCTA	Andalusia, Ala.	5/0.5	U2
WWWR	Russellville, Ala.	1	D1
KSRM	Soldatna, Alaska	5	U1
KARK	Little Rock, Ark.	5	U2
KDES	Palm Springs, Calif.	5/0.5	U4
KVEC	San Luis Obispo, Calif.	1/0.5	U1
KREX	Grand Junction, Colo.	5/0.5	U1
KLMR	Lamar, Colo.	5/0.5	U2
WMEG	Eau Gallie, Fla.	1	U2
WGST	Atlanta, Ga.	5/1	U1
WMOK	Metropolis, Ill.	1	D1
WBAA	West Lafayette, Ind.	5/1	U2
KFNF	Shenandoah, Iowa	1/0.5	U1
WTCW	Whitesburg, Ky.	5	D1
WBOX	Bogalusa, La.	1	D1
KTOC	Jonesboro, La.	1	D1
WMPL	Hancock, Mich.	1	D1
KDHL	Faribault, Minn.	5	U4
KWAD	Wadena, Minn.	1	U2
KWYS	West Yellowstone, Mont.	1	D1
KRAM	Las Vegas, Nev.	1/0.5	U2
KOLO	Reno, Nev.	5/1	U2
WTTM	Trenton, N.J.	1	U3
KQEO	Albuquerque, N.M.	1/0.5	U2
WKRT	Cortland, N.Y.	1/0.5	U2
WGHQ	Kingston, N.Y.	5	D3
WIRD	Lake Placid, N.Y.	5	D1
WBBB	Burlington, N.C.	5	D1
WMNI	Columbus, O.	1/0.5	U4
KGAL	Lebanon, Ore.		U3
WKVA	Lewiston, Pa.	1/0.5	U2
WJAR	Providence, R.I.	5	U2
WTND	Orangeburg, S.C.	1	D1
KEZU	Rapid City, S.D.	1	D1
WLIV	Livingston, Tenn.	1	D1
KELP	El Paso, Tex.	1/0.5	U2
KBZB	Odessa, Tex.	1/0.5	U2
KTLW	Texas City, Tex.	1	D1
KITN	Olympia, Wash.	1	D1
KXLY	Spokane, Wash.	5	U1
WMMN	Fairmount, W. Va.	5	U2
WOKY	Milwaukee, Wis.	5/1	U4
CFRY	Portage la Prairie, Man.	1	U3
CJCJ	Woodstock, NB.	1	U4
CJCH	Halifax, N.S.	10/5	U2
CKCY	Sault Ste. Marie, Ont.	10/5	U4
CKNX	Wingham, Ont.	2.5/1	U4
XEMJ	Piedras Negras, Coah.	1/0.25	U1
XEQD	Chihuahua, Chih.	1	D1
XELT	Guadalajara, Jal.	1	U1
XEOK	Monterrey, N.L.	1	U1
XEBM	San Luis Potosi, S.L.P.	5/1	U1
XECQ	Culiacan, Sin.	1/0.1	U1
XEBR	Hermosillo, Son.	5/1	U1
+low power: 5 US/3 Mex.			
930			
WJBY	Gadsden, Ala.	1	D1
KTKN	Ketchikan, Alaska	5/1	U1
KAPR	Douglas, Ariz.	1	D1
KAFF	Flagstaff, Ariz.	5	D1
KHJ	Los Angeles, Calif.	5	U2
KIUP	Durango, Colo.	5/1	U2
WJAX	Jacksonville, Fla.	5	U2
WKXY	Sarasota, Fla.	1/0.5	U4
WMGR	Bainbridge, Ga.	5/0.5	U2
KSEI	Pocatello, Ida.	5	U2
WTAD	Quincy, Ill.	5/1	U2
WKCT	Bowling Green, Ky.	1/0.5	U2
WFMD	Frederick, Md.	5/1	U4
WBCK	Battle Creek, Mich.	5/1	U4
KKIN	Aitkin, Minn.	1	D1
WSLI	Jackson, Miss.	5	U2
KWOC	Poplar Bluff, Mo.	5/0.5	U2
KYSS	Missoula, Mont.	5	D1
WWNH	Rochester, N.H.	5	U2
WPAT	Paterson, N.J.	5	U4
KCCC	Carlsbad, N.M.	1	D1
WBEN	Buffalo, N.Y.	5	U2
WIZR	Johnstown, N.Y.	1	D3
WSOC	Charlotte, N.C.	5/1	U2
WITN	Washington, N.C.	5/1	U2
WEOL	Elyria, Ohio	1	U4
WKY	Oklahoma City, Okla.	5	U2
KAGI	Grants Pass, Ore.	5/1	U2
*KSWB	Seaside, Ore.	1	D1
WCNR	Bloomsburg, Pa.	1	D1
KSDN	Aberdeen, S.D.	1	U2
WSEV	Sevierville, Tenn.	5	D1
KDET	Center, Tex.	1	D1
KITE	Terrell Hills, Tex.	5/1	U2
WLLL	Lynchburg, Va.	1	D1
KENY	Bellingham-Ferndale, Wash.	1	D1
KQOT	Yakima, Wash.	1	D1
WSAZ	Huntingdon, W. Va.	5/1	U2
WLBL	Auburndale, Wis.	5	D1
KROE	Sheridan, Wyo.	1	D1
CJCA	Edmonton, Alta.	50	U2
CFBC	St. John, N.B.	10/5	U4
CJON	St. John's, Nfld.	10	U2
+low power: 6 US.			
940			
KFRE	Fresno, Calif.	50	U4
WINE	Brookfield, Conn.	1	D1
WINZ	Miami, Fla.	50/10	U4
WMAZ	Macon, Ga.	50/10	U4
WMIX	Mount Vernon, Ill.	5	D3
KIOA	Des Moines, Iowa	10/5	U4
WCND	Shelbyville, Ky.	1	D1
WYLD	New Orleans, La.	10/0.5	U4
WIDG	St. Ignace, Mich.	5	D1
WJOR	South Haven, Mich.	1	D3
WCPC	Houston, Miss.	50	D3
KVSH	Valentine, Nebr.	5	D1
WFNC	Fayetteville, N.C.	10/1	U2
KGRL	Bend, Ore.	1	D1
WGRP	Greenville, Pa.	1	D3
WIPR	San Juan, P.R.	10	U3
KIXZ	Amarillo, Tex.	5/1	U4
KTON	Belton, Tex.	1	D3
KATQ	Texarkana, Tex.	1	D1
WNRG	Gurndy, Va.	5	D1
WCSW	Shell Lake, Wis.	1	D1
CJIB	Vernon, B.C.	10/1	U1
CBM	Montreal, Que.	50	U1
CJGX	Yorkton, Sask.	10	U1
XEWV	Mexicali, B.C.	1	D1
XEQ	Mexico, D.F.	100/50	U1
XERKS	Reynosa, Tams.	1	D1
+low power: 8 US/2 Can.			
950			
WRMA	Montgomery, Ala.	1	D1
KIBH	Seward, Ala.	1	SH1
KXJK	Forrest City, Ark.	5	D1
KFSA	Fort Smith, Ark.	1/0.5	U2
KAHI	Auburn, Calif.	5	D3
KIMN	Denver, Colo.	5	U3
WLOF	Orlando, Fla.	5	U2
WGTA	Summerville, Ga.	5	D1
WGOV	Valdosta, Ga.	5/1	U2
KATN	Boise, Ida.	5	D1
KLER	Orofino, Id.	1	D1
WGRT	Chicago, Ill.	1	D1
WXLW	Indianapolis, Ind.	5	D3
KOEL	Oelwein, Iowa	5/0.5	U4
WYWY	Barbourville, Ky.	1	D1
WAGM	Presque Isl, Me.	5	U4
*WXLN	Potomac-Cabin John, Md.	1	D3
WRYT	Boston, Mass.	5	D1
WWJ	Detroit, Mich.	5	U2
KRSI	St. Louis Park, Minn.	1	U4
WBKH	Hattiesburg, Miss.	5	D1
KLIK	Jefferson City, Mo.	5	D1
KNFT	Bayard, N.M.	1	D1
WBBF	Rochester, N.Y.	1	U4
WIBX	Utica, N.Y.	5	U3
KYES	Roseburg, Ore.	1	D1
WPEN	Philadelphia, Pa.	5	U2
WSPA	Spartanburg, S.C.	5	U2
KWAT	Watertown, S.D.	1	U2
WAGG	Franklin, Tenn.	1	D1
KPRC	Houston, Tex.	5	U2
KSEL	Lubbock, Tex.	5/0.5	U4
WXGI	Richmond, Va.	5	D1
KJR	Seattle, Wash.	5	U2
WKAZ	Charleston, W. Va.	5/1	U2
WERL	Eagle River, Wis.	1	D1
KMER	Kemmerer, Wyo.	5	D1
†CFAM	Altona, Man.	10	U4
CKNB	Campbellton, N.B.	10/1	U4
CHER	Sydney, N.S.	10	U3
CKBB	Barrie, Ont.	10/2.5	U4
XEGM	Tijuana, B.C.	2.5	U1
XEYJ	Nueva Rosita, Coah.	1/0.1	U1
XERN	Montemorelos, N.L.	1	D1
+low power: 7 US/1 Mex.			
960			
WBRC	Birmingham, Ala.	5	U2
KOOL	Phoenix, Ariz.	5	U2
KAVR	Apple Valley, Calif.	5	D1
KABL	Oakland, Calif.	5	U3
WELI	New Haven, Conn.	5	U2
WJCM	Sebring, Fla.	1	D1
WJAZ	Albany, Ga.	5	D3
WRFC	Athens, Ga.	5/0.5	U2
KSRA	Salmon, Ida.	1	D1
WDLM	East Moline, Ill.	1	D3
WSBT	South Bend, Ind.	5	U4
KMA	Shenandoah, Iowa	5	U2

Call	Location	kW	Hrs.
WPRT	Prestonburg, Ky.	5	D1
KROF	Abbeville, La.	1	D1
WBOC	Salisbury, Md.	5/1	U
WFGL	Fitchburg, Mass.	1	U4
WHAK	Rogers City, Mich.	5	D1
KLTF	Little Falls, Minn.	5	D1
WABG	Greenwood, Miss.	1/0.5	U2
KFVS	Cape Girardeau, Mo.	5/0.5	U2
KFLN	Baker, Mont.	5	D1
KNEB	Scottsbluff, Nebr.	1/0.5	U4
KWYK	Farmington, N.M.	1	D1
KRIK	Roswell, N.M.	1	D1
WEAV	Plattsburg, N.Y.	5	U4
WAAK	Dallas, N.C.	1	D1
WFTC	Kinston, N.C.	5/1	U2
WWST	Wooste, Ohio	1	D1
KGWA	Enid, Okla.	1	U3
KLAD	Klamath, Falls, Ore.	5	D1
WHYL	Carlisle, Pa.	5	D3
WKZA	Kane, Pa.	1	D1
WATS	Sayre, Pa.	1	D1
WBEU	Beaufort, S.C.	1	D1
KIMP	Mt. Pleasant, Tex.	1	D1
KGKL	San Angelo, Tex.	5/1	U2
KOVO	Provo, Utah	5/1	U2
WDBJ	Roanoke, Va.	5	U2
KALE	Richland, Wash.	1	U2
WTCH	Shawano, Wis.	1	U2
CFAC	Calgary, Alta.	10	U2
CHNS	Halifax, N.S.	10	U2
CKWS	Kingston, Ont.	10/5	U4
ZFBI	Hamilton, Bermuda	5	U1
XECS	Manzanillo, Col.	1	U1
XEHK	Guadalajara, Jal.	1/0.25	U1
XEMM	Morelia, Mich.	1	U1
XEROO	Chetumal, Q.R.	1	U1
XEIQ	Cd. Obregon, Son.	1	U1
XEK	Nuevo Laredo, Tams.	5/1	U1
XEGB	Coatzacoalcos, Ver.	1	U1
XEOZ	Xalapa, Ver.	1	U1
+ low power: 3 US/1 Can/3 Mex.			
970			
WERH	Hamilton, Ala.	5	D1
WTBF	Troy, Ala.	5/0.5	U2
KVWM	Show Low, Ariz.	5	D1
KNEA	Jonesboro, Ark.	1	D1
KBIS	Bakersfield, Calif.	1	U4
KCHV	Coachella, Calif.	5/1	U4
KBEE	Modesto, Calif.	1	U4
KFEL	Pueblo, Colo.	1	D1
*WBOM	Jacksonville, Fla.	1	D3
WFLA	Tampa, Fla.	5	U2
WIIN	Atlanta, Ga.	5	D3
WVOP	Vidalia, Ga.	5	D1
KAYT	Rupert, Idaho	1	D1
WMAY	Springfield, Ill.	1/0.5	U4
WAVE	Louisville, Ky.	5	U4
KSYL	Alexandria, La.	1	U2
WCSH	Portland, Me.	5	U2
WESO	Southbridge, Mass.	1	D1
WCKD	Ishpeming, Mich.	5	D1
WKHM	Jackson, Mich.	1	U4
KQAQ	Austin, Minn.	5/0.5	U4
WRKN	Brandon, Miss.	1	D3
KOOK	Billings, Mont.	5	U2
KJLT	North Platte, Nebr.	5	D1
WJRZ	Hackensack, N.J.	5	U4
KDCE	Espanola, N.M.	1	D1
WEBR	Buffalo, N.Y.	5	U3
WRCS	Ahoskie, N.C.	1	D1
WWIT	Canton, N.C.	1	D1
WDAY	Fargo, N.D.	5	U2
WREO	Ashtabula, O.	5/1	U4
WATH	Athens, O.	1	D1
KAKC	Tulsa, Okla.	1/0.5	U4
KOIN	Portland, Ore.	5	U2
WWSW	Pittsburgh, Pa.	5	U4
WJMX	Florence, S.C.	5/1	U2
KHFI	Austin, Tex.	5	D3
KBSN	Crane, Tex.	1	D1
KNOK	Ft. Worth, Tex.	1	D1
WIVI	Christiansted, Virgin Is.	5/1	U1
WYPR	Danville, Va.	1	D1
WANV	Waynesboro, Va.	5/1	U4
KREM	Spokane, Wash.	5/1	U2
WWYO	Pineville, W. Va.	1	D1
WHA	Madison, Wis.	5	D1
CBZ	Fredericton, N.B.	10	U2
CKCH	Hull, Que.	5	U3
CJYR	Edson, Alta	10	U
XEJ	Cd. Juarez, Chih.	10/5	U1
XEDF	Mexico, D.F.	10	U2
XECJ	Apatzingan, Mich.	1/0.25	U1
XEOW	Mazatlan, Sin.	1/0.25	U1
XEVT	Villa Hermosa, Tab.	5	U1
XEBJ	Cd. Victoria, Tams.	1/0.25	U1
XEO	Matamoros, Tams.	1	U1
XEMH	Merida, Yuc.	1/0.5	U1
+ low power: 4 US/1 Can/2 Mex.			
980			
WKLF	Clanton, Ala.	1	D1
KCAB	Dardenelle, Ark.	1	D1
KINS	Eureka, Calif.	5/0.5	U2
KFWB	Los Angeles, Calif.	5	U1
KCTY	Salinas, Calif.	1	D3
KGLN	Glenwood Spgs., Colo.	1	D1
WSUB	Groton, Conn.	1	D1
WRC	Washington, D.C.	5	U2
WDVH	Gainesville, Fla.	5	D1
WTOT	Marianna, Fla.	1	D1
WBOP	Pensacola, Fla.	1	D1
WLOD	Pompano Beach, Fla.	1	D3
WKLY	Hartwell, Ga.	1	D1
WPGA	Perry, Ga.	1	D1
KUPI	Idaho Falls, Ida.	1	D1
KSGM	Chester, Ill.	1/0.5	U2
WITY	Danville, Ill.	1	U4
KCIJ	Shreveport, La.	5	D1
WCAP	Lowell, Mass.	1	D1
WAOP	Otsego, Mich.	1	D1
WPBC	Richfield, Minn.	5	U3
WAPF	McComb, Miss.	5	D1
WKOR	Starkville, Miss.	1	D1
KMBZ	Kansas City, Mo.	5	U2
KLYQ	Hamilton, Mont.	1	D1
KVLV	Fallon, Nev.	5	D1
KICA	Clovis, N.M.	1	U2
KMIN	Grants, N.M.	1	D1
WTRY	Troy, N.Y.	5	U3
WKLM	Wilmington, N.C.	5	D1
WAAA	Winston-Salem, N.C.	1	D1
WONE	Dayton, Ohio	5	U4
WILK	Wilkes-Barre, Pa.	5/1	U2
WAZS	Summerville, S.C.	1	D1
WYCL	York, S.C.	1	D3
KDSJ	Deadwood, S.D.	1	U2
WSIX	Nashville, Tenn.	5	U2
KFRD	Rosenburg-Richmond, Texas	1	D1
KSVC	Richfield, Utah	5	D1
WFHG	Bristol, Va.	5/1	U2
KUTI	Yakima, Wash.	5	D1
WHAW	Weston, W. Va.	1	D1
WCUB	Manitowoc, Wis.	1	D1
†WNBI	Park Falls, Wis.	1	D1
WPRE	Prairie du Chien, Wis.	1	D1
CKNW	New Westminster, B.C.	50	U3
CFPL	London, Ont.	10/5	U4
CHEX	Peterborough, Ont.	5	U4
CBV	Quebec, Que.	5	U3
CKGM	Montreal, Que	10	U3
CKRM	Regina, Saks.	10/5	U4
XENR	Nueva Rosita, Coah.	5/0.5	U1
XELC	La Piedad, Mich.	5	U1
XEXT	Tepic, Nay	1	U1
XEQG	Queretaro, Qro.	1/0.1	U5
XEKE	Navajoa, Son.	1/0.25	U1
XETU	Tampico, Tams.	10/1	U5
+ low power: 4 US/1 Can/1 Mex.			
990			
WWWF	Fayette, Ala.	1	D1
KTKT	Tucson, Ariz.	10/1	U4
KKIS	Pittsburg, Calif.	5	U4
KGUD	Santa Barbara, Calif.	1	D3
KLIR	Denver, Colo.	1	D1
WFAB	South Miami, Fla.	5	U3
WHOO	Orlando, Fla.	10/5	U2
WDWD	Dawson, Ga.	1	D1
WCAZ	Carthage, Ill.	1	D1
WITZ	Jasper, Ind.	1	D1
KSVP	Artesia, N.M.	1/0.25	U1
WEEB	South Pines, N.C.	5	D1
WJEH	Gallipolis, O.	1	D1
WIBG	Philadelphia, Pa.	50/10	U4
WVSC	Somerset, Pa.	5	D3
WPRA	Mayaguez, P.R.	1	U1
WLKW	Providence, R.I.	50	D3
WAKN	Aiken, S.C.	1	D1
WNOX	Knoxville, Tenn.	10	U2
KWAM	Memphis, Tenn.	10	D3
KTRM	Beaumont, Tex.	1	U3
KNIN	Wichita Falls, Tex.	10/1	U4
KDYL	Tooele, Utah	1	D1
WNRV	Narrows-Petersburg, Va.	5	D1
WANT	Richmond, Va.	1	D1
CBW	Winnipeg, Man.	50	U1
CBY	Corner Brook, Nfld.	10	U1
XECL	Mexicali, B.C.	5	U1
XEHZ	La Paz, B.C. S.	1	U1
XEBC	Cd. Guzman, Jal.	1/0.1	U1
XET	Monterrey, N.L.	50	U2
+ low power: 15 US/11 Can/2 Mex.			
1000			
WVOV	Huntsville, Ala.	10	D3
WFMI	Montgomery, Ala.	5	D3
KMLO	Vista, Calif.	1	D3
WKMK	Blountstown, Fla.	5	D3
WJST	Jupiter, Fla.	1	D3
WCFL	Chicago, Ill.	50	U4
WLMS	Leominster, Mass.	1	D1
WXTN	Lexington, Miss.	5	D1
WIQT	Horseheads, N.Y.	1	D1
WSPF	Hickory, N.C.	5	D1
KTOK	Oklahoma City, Okla.	5	U4
WIOO	Carlisle, Pa.	1	D1
WKYB	Hemingway, S.C.	5	D1
WGOG	Walhalla, S.C.	1	D1
*	Sioux Falls, S.D.	10	D3
WHWB	Rutland, Vt.	1	D1
WKDE	Alta Vista, Va.	1	D1
WBNB	Charlotte Amalie, Virgin Is.	1	U1
KOMO	Seattle, Wash.	50	U2
CKBW	Bridgewater, N.S.	10	U2
XEFV	Cd. Juarez, Chih.	1	D1
XEOY	Mexico, D.F.	10	U1
+ low power: 3 US.			
1010			
KLRA	Little Rock, Ark.	10/5	U2
KCHJ	Delano, Calif.	5/1	U4
KCMJ	Palm Springs, Calif.	1/0.5	U4
KSAY	San Francisco, Calif.	10	D3
WCNU	Crestview, Fla.	1	D1
WBIX	Jacksonville Beach, Fla.	10	D3
WINQ	Tampa, Fla.	50	D3
WGUN	Atlanta, Ga.	50	D1
KSMN	Mason City, Iowa	1	D1
KDLA	DeRidder, La.	1	D1
WSID	Baltimore, Md.	1	D1
WMOX	Meridian, Miss.	10/1	U4
KXEN	St. Louis, Mo.	50	D3
KRVN	Lexington, Nebr.	25	D3
WINS	New York, N.Y.	50	U3
WABZ	Albermarle, N.C.	1	D1
WFGW	Black Mountain, N.C.	50	D3
WELS	Kinston, N.C.	1	D1
WIOI	New Boston, O.	1	D1
WHIN	Gallatin, Tenn.	1	D1
KDJW	Amarillo, Tex.	5/0.5	U3
KODA	Houston, Tex.	5	D3
KAWA	Waco-Marlin, Tex	10	D3
WELK	Charlottesville, Va.	1	D1
WMEV	Marion, Va.	1	D1
WPMH	Portsmouth, Va.	5	D3
WSPT	Stevens Point, Wis.	1	D1
CBR	Calgary, Alta.	50	U4
CFRB	Toronto, Ont.	50	U4
XEDX	Ensénada, B.C.	1/0.25	U1
XEVK	Torreon, Coah.	5	U1
XETX	Nuevo Casas Grandes, Chih.	1/0.25	U1
XEHL	Guadalajara, Jal.	10	U1
XEWS	Culiacan, Sin.	5	U1
XEFM	Veracruz, Ver.	1	U1
+ low power: 10 US/6 Can/2 Mex.			
1020			
KGBS	Los Angeles, Calif.	50	L3
WCIL	Carbondale, Ill.	1	D1
WPEO	Peoria, Ill.	1	D1
KSWS	Roswell, N.M.	50/10	U4
KDKA	Pittsburgh, Pa.	50	U1
XEXL	Patzcuaro, Mich.	1	D1
1030			
WBZ	Boston, Mass.	50	U3
*	San Juan, P.R.	10	U3
KCTA	Corpus Christi, Tex.	50	D1
†KTWO	Casper, Wyo.	10	U4
XEQR	Mexico, D.F.	10	U1
XELJ	Lagos, Jal.	0.25	D1
1040			
WHO	Des Moines, Iowa	50	U1
KJXL	Dallas, Tex.	1	D1
1050			
WRFS	Alexander City, Ala.	1	D1
KMYO	Little Rock, Ark.	1	D1
KOFY	San Mateo, Calif.	1	D1
KWSO	Wascox, Calif.	1	D1
WJSB	Crestview, Fla.	1	D1
WIVY	Jacksonville, Fla.	1	D1
WAUG	Austusta, Ga.	5	D1
WDZ	Decatur, Ill.	1	D1
KUPK	Garden City, Kans.	5	D3
WQMR	Silver Spring, Md.	1	D1
WPAG	Ann Arbor, Mich.	5	D1
KLOH	Pipestone, Minn.	1	D3
WACR	Columbus, Miss.	1	D1
KMIS	Portageville, Mo.	1	D1
KSIS	Sedalia, Mo.	1	D1
WBNC	Conway, N.H.	1	D1

Call	Location	kW	Hrs.
*WSCV	Peterborough, N.H.	1	D1
WYBG	Massena, N.Y.	1	D1
WHN	New York, N.Y.	50	U3
WFSC	Franklin, N.C.	1	D1
WLON	Lincolnton, N.C.	1	D1
WWGP	Sanford, N.C.	1	D1
WZIP	Cincinnati, O.	1	D1
KFMJ	Tulsa, Okla.	1	D1
KORE	Springfield-Eugene, Ore.	1	D1
WLYC	Williamsport, Pa.	1	D1
WCGB	Pastillo, P.R.	1	D1
WSMT	Sparta, Tenn.	1	D1
WGAT	Gate City, Va.	1	D1
WBRG	Lynchburg, Va.	1	D1
WCMS	Norfolk, Va.	5	D3
KBLE	Seattle, Wash.	5	D1
WCEF	Parkersburg, W. Va.	5	D1
WECL	Eau Claire, Wis.	1	D1
WKAU	Kaukauna, Wis.	1	D3
CFGP	Grand Prairie, Alta.	10	U3
CKSB	Ste. Boniface, Man.	10	U2
CJIC	Sault Ste. Marie, Ont.	10/2.5	U2
CHUM	Toronto, Ont.	50	U4
CJNB	No. Battleford, Sask.	10	U2
XED	Mexicali, B.C.	10/1	U3
XEG	Monterrey, N.L.	150	U1
+ low power: 20 US.			
1060			
KPAY	Chico, Calif.	10	U2
KLMO	Longmont, Colo.	10	D1
WJKY	Jamestown, Ky.	1	D1
WNOE	New Orleans, La.	50/5	U4
*WGTR	Natick, Mass.	1	D1
WHFB	Benton Harbor, Mich.	5	D1
KFIL	Preston, Minn.	1	D1
WMAP	Monroe, N.C.	1	D1
KNLV	Ord, Nebr.	1	D1
WOIO	Canton, O.	5	D3
KYW	Philadelphia, Pa.	50	U3
WALD	Walterboro, S.C.	1	D1
KGFX	Pierre, S.D.	10	D3
WPHC	Waverly, Tenn.	1	D1
KRSP	Salt Lake City, Utah	10	D1
WCIR	Beckley, W. Va.	10	D1
CFCN	Calgary, Alta.	50	U4
CJLR	Quebec, Que.	10	U4
XEDP	Mexico, D.F.	50/0.5	U1
+ low power: 8 US.			
1070			
WAPI	Birmingham, Ala.	50/5	U2
KNX	Los Angeles, Calif.	50	U1
WIBC	Indianapolis, Ind.	50/10	U4
KFDI	Wichita, Kans.	10	U2
KHMO	Hannibal, Mo.	5/1	U4
†WNCT	Greenville, N.C.	10	U4
WHPE	High Point, N.C.	1	D1
WKOK	Sunbury, Pa.	10/1	U4
WHYZ	Greenville, S.C.	50	D3
WFLI	Lookout Mountain Tenn.	50/1	U4
WDIA	Memphis, Tenn.	50/5	U4
KOPY	Alice, Tex.	1	U2
KENR	Houston, Tex.	5	D3
WINA	Charlottesville, Va.	5	U2
WKOW	Madison, Wis.	10/5	U4
CFAX	Victoria, B.C.	1	U3
CBA	Sackville, N.B.	50	U1
CHOK	Sarnia, Ont.	5/1	U2
XEIT	Carmen, Cam.	1	U1
XESP	Guadalajara, Jal.	5	U2
XEGY	Tehuacan, Pue.	1/0.25	U1
+ low power: 3 US/2 Can.			
1080			
WKAC	Athens, Ala.	1	D1
KSCO	Santa Cruz, Calif.	10/0.5	U2
WTIC	Hartford, Conn.	50	U2
WVCG	Coral Gables, Fla.	10/0.5	U4
WFIV	Kissimee, Fla.	5	D1
WJOE	Port St. Joe, Florida	1	D1
WBIE	Marietta, Ga.	10	D3
WPOK	Pontiac, Ill.	1	D3
WKLO	Louisville, Ky.	5/1	U4
WOAP	Owosso, Mich.	1	D1
*KYMN	Northfield, Minn.	1	D1
WUFO	Amherst, N.Y.	1	D1
WEWO	Laurinburg, N.C.	5	D1
*	Lenoir, N.C.	1	D1
*WWDR	Murfreesboro, N.C.	1	
KNDK	Langdon, N.D.	1	D1
KWJJ	Portland, Ore.	50/10	U3
WEEP	Pittsburgh, Pa.	1	D1
KRLD	Dallas, Tex.	50	U2
WKBY	Chatham, Va.	1	D1
CKSA	Lloydminster, Alta.	10	U3
+ low power: 6 US/3 Can/3 Mex.			
1090			
KAAY	Little Rock, Ark.	50	U2
WQIK	Jacksonville, Fla.	50	D3
*WWSD	Monticello, Fla.	1	D1
WCRA	Effingham, Ill.	1	D1
*WFWR	Fort Wayne, Ind.	1	D3
KNWS	Waterloo, Iowa	1	D1
WBAL	Baltimore, Md.	50	U2
WILD	Boston, Mass.	1	D1
WMUS	Muskegon, Mich.	1	D1
WBZB	Selma, N.C.	1	D1
WMWM	Wilmington, O.	1	D3
WENR	Englewood, Tenn.	1	D1
WGOC	Kingsport, Tenn.	1	D1
KANN	Ogden, Utah	1	D1
KING	Seattle, Wash.	50	U4
CHEC	Lethbridge, Alta.	5	U4
CHRS	St. Jean, Que.	10	D1
XERB	Rosarito, B.C.	50	U2
XEWL	Nuevo Laredo, Tams.	2.5	D1
XEOD	Veracruz, Ver.	1	U2
+ low power: 11 US/5 Can/2 Mex.			
1100			
KFAX	San Francisco, Calif.	50/1	L5
†KREX	Grand Junction, Colo.	50/10	U6
WLBB	Carrollton, Ga.	1	D1
WHLI	Hempstead, N.Y.	10	D3
WKYC	Cleveland, O.	50	U3
1110			
WBCA	Bay Minette, Ala.	10	D1
WBIB	Centreville, Ala.	1	D1
KRLA	Pasadena, Calif.	50/10	U4
WALT	Tampa, Fla.	10	D3
WMBI	Chicago, Ill.	5	L1
WKDZ	Cadiz, Ky.	1	D1
WFCG	Franklinton, La.	1	D1
WJML	Petoskey, Mich.	10	D3
WJML	Petoskey, Mich.	10	D3
WKRA	Holly Springs, Miss.	1	D1
KFAB	Omaha, Nebr.	50	U2
WBT	Charlotte, N.C.	50	U2
*WSFW	Seneca Falls, N.Y.	1	D1
KEOR	Atoka, Okla.	5	D3
KBND	Bend, Ore.	5/1	U4
WJSM	Martinsburg, Pa.	1	D1
WHIM	Providence, R.I.	1	D1
KDRY	Alamo Heights, Tex.	1	D1
CHQT	Edmonton, Alta.	10	U2
CBD	St. John, N.B.	10	U4
CFML	Cornwall, Ont.	1	D3
XERCN	Mexico, D.F.	50	U2
XELEO	Leon, Gto.	1	U4
XEOQ	Rio Bravo, Tams.	1	D1
+ low power: 6 US/4 Can/2 Mex.			
1120			
KMOX	St. Louis, Mo.	50	U1
WWOL	Buffalo, N.Y.	1	D1
KPNW	Eugene, Ore.	50	U3
XEVNO	Guadalajara, Jal.	1	D1
XETR	Cd. Valles, S.L.P.	1	D1
+ low power: 2 US.			
1130			
KRDU	Dinuba, Calif.	1	U3
KSDO	San Diego, Calif.	5/1	U4
†WNRJ	Gainesville, Ga.	10	D1
†WMGA	Moultrie, Ga.	10/0.25	U4
KWKH	Shreveport, La.	50	U2
WCAR	Detroit, Mich.	50/10	U4
WDGY	Minneapolis, Minn.	50/25	U4
†WPYB	Benson, N.C.	1	D1
WNEW	New York, N.Y.	50	U2
WASP	Brownsville, Pa.	1	D1
KBGH	Memphis, Tex.	1	D3
WISN	Milwaukee, Wis.	50/10	U4
CKWX	Vancouver, B.C.	50	U2
XEZL	Xalapa, Ver.	10	U2
+ low power: 4 US/1 Mex.			
1140			
KRAK	Sacramento, Calif.	50	U4
KNAB	Burlington, Colo.	1	D1
WQBA	Miami, Fla.	10/5	U4
KGEM	Boise, Ida.	10	U3
WSIV	Pekin, Ill.	5	D1
†KLUC	Las Vegas, Nev.	10	D
KLPR	Oklahoma City, Okla.	1	D1
WBZY	New Castle, Pa.	5	D3
WITA	San Juan, P.R.	10	U3
KSOO	Sioux Falls, S.D.	10/5	U2
WRVA	Richmond, Va.	50	U3
CKXL	Calgary, Alta.	10	U2
CBI	Sydney, N.S.	10	U2
XEXF	Leon, Gto.	5	D1
XEMR	Monterrey, N.L.	1/0.35	U1
+ low power: 8 US/5 Can/1 Mex.			
1150			
WGEA	Geneva, Ala.	1	D1
WJRD	Tuscaloosa, Ala.	5/1	U2
KCKY	Coolidge, Ariz.	1	U2
KXLR	No. Little Rock, Ark.	5/1	U2
KRKD	Los Angeles, Calif.	5/1	U1
KPLS	Santa Rosa, Calif.	5/0.5	U4
KGMC	Englewood, Colo.	1	D1
WCNX	Middletown, Conn.	1	D1
WDEL	Wilmington, Del.	5	U4
WNDB	Daytona Beach, Fla.	1	U2
WTMP	Tampa, Fla.	5	D3
WFPM	Fort Valley, Ga.	1	D1
WJEM	Valdosta, Ga.	1	D1
WGGH	Marion, Ill.	5	D3
KWKY	Des Moines, Iowa	1	U4
KSAL	Salina, Kans.	5	U2
WLOC	Munfordville, Ky.	1	D1
WJBO	Baton Rouge, La.	5	U3
WGHM	Skowhegan, Me.	5	D1
WHMC	Gaithersburg, Md.	1/0.5	U4
WCOP	Boston, Mass.	5	U4
WCEN	Mt. Pleasant, Mich.	1/0.5	U2
KASM	Albany, Minn.	1	D1
KRMS	Osage Bch., Mo.	1	D1
KSEN	Shelby, Mont.	1/0.5	U2
KDEF	Albuquerque, N.M.	5/0.5	U2
WRUN	Utica, N.Y.	5/1	U4
WBAG	Burlington-Graham	1	D1
WGBR	Goldsboro, N.C.	5/1	U4
WCUE	Cuyahoga Falls, O.	1/0.5	U4
WIMA	Lima, O.	1	U2
KNED	McAlester, Okla.	1/0.5	U2
KAGO	Klamath Falls, Ore.	5/1	U2
KKEY	Portland, Ore.	5	D3
WHUN	Huntingdon, Pa.	5	D1
WYNS	Lehighton, Pa.	1	D3
WKPA	New Kensington, Pa.	1	D3
WDIX	Orangeburg, S.C.	5/0.5	U4
WTYC	Rock Hill, S.C.	1	D1
WSNW	Seneca, S.C.	1	D1
KIMM	Rapid City, S.D.	5	D1
WAPO	Chattanooga, Tenn.	5/1	U2
WCRK	Morristown, Tenn.	1/0.5	U2
WTAW	College Station, Tex.	1	D1
KCCT	Corpus Christi, Tex.	1	D3
KIZZ	El Paso, Tex.	1	D1
KVIL	Highland Pk., Tex.	1	D3
KJBC	Midland, Tex.	1	D1
KBER	San Antonio, Tex.	1	D3
WABH	Deerfield, Va.	1	D1
KPUL	Pullman, Wash.	1	D1
KAYO	Seattle, Wash.	5/1	U1
KKEY	Vancouver, Wash.	1	D1
WELC	Welch, W. Va.	1	D1
WAXX	Chippewa Falls, Wis.	5	D1
CKX	Brandon, Man.	10/1	U1
CHSJ	St. John, N.B.	10/5	U4
CKOC	Hamilton, Ont.	10	U4
CJRC	Ottawa, Ont.	10/5	U4
CKTR	Three Rivers, Que.	10/1	U4
XERM	Mexicali, B.C.	1	U2
XEBF	San Padres, Coah.	1	U1
XEJS	Parral, Chih.	1	U1
XEJP	Mexico, D.F.	10	U2
XEAD	Guadalajara, Jal.	1	U1
XERTM	Macuspana, Tab.	1	U1
XEXZ	Zacatecas, Zac.	1/0.2	U1
+ low power: 5 US/2 Can/2 Mex.			
1160			
WJJD	Chicago, Ill.	50	L3
KSL	Salt Lake Cy., Utah	50	U1
XEVW	Acambaro, Gto.	1	D1
XEIW	Uruapan, Mich.	1	D1
1170			
WCOV	Montgomery, Ala.	10/1	U4
KJNP	North Pole, Alaska	10/5	U1
KCBQ	San Diego, Calif.	50/5	U4
KLOK	San José, Calif.	10/5	U4
*	Windsor, Colo.	1	D1
KSTT	Davenport, Iowa	1	U4
*	Cornwall, N.Y.	1	D3
KVOO	Tulsa, Okla.	50	U2
KPUG	Bellingham, Wash.	5/1	U4
WWVA	Wheeling, W. Va.	50	U2
*	Chatboro, Ont.	5	D1
CFNS	Saskatoon, Sask.	1	U3
XERT	Reynosa, Tams.	5/0.25	U1
+ low power: 3 US/6 Can/1 Mex.			
1180			
"VOA"	Marathon Key, Fla.	50	U1
WLDS	Jacksonville, Ill.	1	D1
KOFI	Kalispell, Mont.	10	U2
WHAM	Rochester, N.Y.	50	U1
XEFR	Mexico, D.F.	1	U1
1190			
*WAYD	Ozark, Ala.	1	D
KEZY	Anaheim, Calif.	5/1	U2
WGKA	Atlanta, Ga.	1	D1
WOWO	Ft. Wayne, Ind.	50	U2
WANN	Annapolis, Md.	10	D3
WKOX	Framingham, Mass.	1	D1
*KHAD	DeSoto, Mo.	1	D3
*KPAR	Albuquerque, N.M.	1	D1
WLIB	New York, N.Y.	10	L3
KEX	Portland, Ore.	50	U3
WBMJ	San Juan, P.R.	10	U4
KLIF	Dallas, Tex.	50/1	U4

Call	Location	kW	Hrs.
†CFSL	Weyburn, Sask.	10/5	U2
XEMBC	Mexicali, B.C.	1	D1
XEPZ	Cd. Juarez, Chih.	1	D1
XEWK	Guadalajara, Jal.	5	U1
XEDO	Jojutla, Mor.	1	D1
XETKR	Monterrey, N.L.	1	D1
+ low power: 5 US/2 Can/2 Mex.			
1200			
WOAI	San Antonio, Tex.	50	U1
XEZI	Zacapu, Mich.	1	D1
+ low power: 1 US/1 Can/1 Mex.			
1210			
WILY	Centralia, Ill.	1	D1
WKNX	Saginaw, Mich.	10	D3
WADE	Wadesboro, N.C.	1	D1
†KGYN	Guymon, Okla.	10	U2
WCAU	Philadelphia, Pa.	50	U1
WHOY	Salinas, P.R.	1	D1
	Greenland	0.25	U1
1220			
WAQY	Birmingham, Ala.	1	D1
WABF	Fairhope, Ala.	1	D3
KVSA	McGehee, Ark.	1	D1
KIBE	Palo Alto, Calif.	5	D1
KFSC	Denver, Colo.	1	D1
WCBQ	Hamden, Conn.	1	D3
WDCJ	Arlington, Fla.	1	D1
WACY	Kissimee, Fla.	1	D1
WSAF	Sarasota, Fla.	1	D3
WCLB	Camilla, Ga.	1	D1
WLPO	LaSalle, Ill.	1	D3
WKRS	Waukegan, Ill.	1	D3
WSLM	Salem, Ind.	5	D3
WSME	Sanford, Me.	1	D1
WAVN	Stillwater, Minn.	5	D1
KBHM	Branso, Mo.	1	D1
KLPW	Union, Mo.	1	D1
WKBK	Keene, N.H.	1	D1
WGNY	Newburgh, N.Y.	5	D3
WSOQ	No. Syracuse, N.Y.	1	D1
WKMT	Kings Mtn., N.C.	1	D1
WREV	Reidsville, N.C.	1	D1
WENC	Whiteville, N.C.	5	D1
KEYD	Oakes, N.D.	1	D1
WGAR	Cleveland, O.	50	U3
KGYN	Guymon, Okla.	1	D1
KAPT	Salem, Ore.	1	D1
WJUN	Mexico, Pa.	1	D1
WRIB	Providence, R.I.	1	D1
WCPH	Etowah, Tenn.	1	D1
WLSD	Big Stone Gap, Va.	1	D1
WFAX	Falls Church, Va.	5	D1
CJOC	Lethbridge, Alta.	10/5	U2
CKDA	Vancouver, B.C.	10	U3
*	Brandon, Man.	1	U4
CKCW	Moncton, N.B.	10	U2
CJSS	Cornwall, Ont.	1	U4
CJRL	Kenora, Ont.	1	U1
CHSC	Ste. Catherines, Ont.	1/0.5	U3
CKSM	Shawinigan Falls, Que.	1	U3
XEB	Mexico, D.F.	100	U1
+ low power: 19 US.			
1230			
WAUD	Auburn, Ala.	1/0.25	U1
WJBB	Haleyville, Ala.	1/0.25	U1
WBHP	Huntsville, Ala.	1/0.25	U1
WTBC	Tuscaloosa, Ala.	1/0.25	U1
KAAA	Kingman, Ariz.	1/0.25	U1
KRIZ	Phoenix, Ariz.	1/0.25	U1
KINO	Winslow, Ariz.	1/0.25	U1
KCON	Conway, Ark.	1/0.25	U1
KFPW	Ft. Smith, Ark.	1/0.25	U1
KBTM	Jonesboro, Ark.	1/0.25	U1
KGEE	Bakersfield, Calif.	1/0.25	U1
KWTC	Barstow, Calif.	1/0.25	U1
KIBS	Bishop, Calif.	1/0.25	U1
KGFJ	Los Angeles, Calif.	1/0.25	U1
KPRL	Paso Robles, Calif.	1/0.25	U1
KWG	Stockton, Calif.	1/0.25	U1
KEXO	Grand Junction, Colo.	1/0.25	U1
KDZA	Pueblo, Colo.	1/0.25	U1
KGEK	Sterling, Colo.	1/0.25	U1
WINF	Manchester, Conn.	1/0.25	U1
WGGG	Gainesville, Fla.	1/0.25	U1
WONN	Lakeland, Fla.	1/0.25	U1
WMAF	Madison, Fla.	1/0.25	SH1
WSBB	New Smyrna Bch., Fla.	1/0.25	U1
WNVY	Pensacola, Fla.	1/0.25	U1
WCNH	Quincy, Fla.	1/0.25	U1
WBIA	Augusta, Ga.	1/0.25	U1
WBLJ	Dalton, Ga.	1/0.25	U1
WXLI	Dublin, Ga.	1/0.25	U1
WFOM	Marietta, Ga.	1/0.25	U1
WSOK	Savannah, Ga.	1/0.25	U1
WAYX	Waycross, Ga.	1/0.25	U1
KBAR	Burley, Ida.	1/0.25	U1
KORT	Grangeville, Ida.	1/0.25	U1
KRXK	Resburg, Ida.	1/0.25	U1
WJBC	Bloomington, Ill.	1/0.25	U1
WQUA	Moline, Ill.	1/0.25	U1
WJOB	Hammond, Ind.	1/0.25	U1
WSAL	Logansport, Ind.	1/0.25	U1
WTCJ	Tell City, Ind.	1/0.25	U1
WBOW	Terre Haute, Ind.	1/0.25	U1
KFJB	Marshalltown, Iowa	1/0.25	U1
WHIR	Danville, Ky.	1/0.25	U1
WHOP	Hopkinsville, Ky.	1/0.25	U1
WANO	Pineville, Ky.	1/0.25	U1
KLIC	Monroe, La.	1/0.25	U1
WBOK	New Orleans, La.	1/0.25	U1
KSLO	Opelousas, La.	1/0.25	U1
WQDY	Calais, Me.	1/0.25	U1
WSJR	Madawaska, Me.	1/0.25	U1
WITH	Baltimore, Md.	1/0.25	U1
WCUM	Cumberland, Md.	1/0.25	U1
WMNB	No. Adams, Mass.	1/0.25	U1
WESX	Salem, Mass.	1/0.25	U1
WNEB	Worcester, Mass.	1/0.25	U1
WJEF	Grand Rapids, Mich.	1/0.25	U1
WIKB	Iron River, Mich.	1/0.25	U1
WSOO	Sault Ste. Marie, Mich.	1/0.25	U
WSTR	Sturgis, Mich.	1/0.25	U1
WKLK	Cloquet, Minn.	1/0.25	U1
KYSM	Mankato, Minn.	1/0.25	U1
KMRS	Morris, Min.	1/0.25	U1
KTRF	Thief River Falls, Minn.	1/0.25	U
KGHS	Intern Falls, Minn.	1/0.25	U1
KWNO	Winona, Minn.	1/0.25	U1
WCMA	Corinth, Miss.	1/0.25	U1
WHSY	Hattiesburg, Miss.	1/0.25	U1
WSSO	Starkville, Miss.	1/0.25	U1
WAZF	Yazoo Cy., Miss.	1/0.25	U1
KODE	Joplin, Mo.	1/0.25	U1
KLWT	Lebanon, Mo.	1/0.25	U1
KWIX	Moberly, Mo.	1/0.25	U1
KBMN	Bozeman, Mont.	1/0.25	U1
KHDN	Hardin, Mont.	1/0.25	SH1
KXLO	Lewiston, Mont.	1/0.25	U1
KLCB	Libby, Mont.	1/0.25	U1
KHAS	Hastings, Nebr.	1/0.25	U1
KCBN	Reno, Nev.	1/0.25	U1
WMOU	Berlin, N.H.	1/0.25	U1
WTSV	Claremont, N.H.	1/0.25	U1
WCMC	Wildwood, N.J.	1/0.25	U1
KYVA	Gallup, N.M.	1/0.25	U1
KRSY	Roswell, N.M.	1/0.25	U1
WENY	Elmira, N.Y.	1/0.25	U1
WIGS	Gouverneur, N.Y.	1/0.25	U1
WHUC	Hudson, N.Y.	1/0.25	U1
WLFH	Little Falls, N.Y.	1/0.25	U1
WFAS	White Plains, N.Y.	1/0.25	U1
WSKY	Asheville, N.C.	1/0.25	U1
WFAI	Fayetteville, N.C.	1/0.25	U1
WMFR	High Point, N.C.	1/0.25	U1
WISP	Kinston, N.C.	1/0.25	U1
WNNC	Newton, N.C.	1/0.25	U1
WCBT	Roanoke Rapids, N.C.	1/0.25	U1
KDIX	Dickinson, N.D.	1/0.25	U1
WUBE	Cincinnati, O.	1/0.25	U1
WCOL	Columbus, O.	1/0.25	U1
WIRO	Ironton, O.	1/0.25	U1
WCWA	Toledo, O.	1/0.25	U1
KVAS	Astoria, Ore.	1/0.25	U1
KRNS	Burns, Ore.	1/0.25	SH1
KOOS	Coos Bay, Ore.	1/0.25	U1
KRDR	Gresham, Ore.	1/0.25	U1
KQIK	Lakeview, Ore.	1/0.25	SH1
KYJC	Medford, Ore.	1/0.25	U1
KTDO	Toledo, Ore.	1/0.25	U1
WBVP	Beaver Falls, Pa.	1/0.25	U1
WEEX	Easton, Pa.	1/0.25	U1
WKBO	Harrisburg, Pa.	1/0.25	U1
WCRO	Johnstown, P.	1/0.25	U1
WBPZ	Lock Haven, Pa.	1/0.25	U1
WTIV	Titusville, Pa.	1/0.25	U1
WNIK	Arecibo, P.R.	1/0.25	U1
WERI	Westerly, R.I.	1/0.25	U1
WAIM	Anderson, S.C.	1/0.25	U1
WNOK	Columbia, S.C.	1/0.25	U1
WOLS	Florence, S.C.	1/0.25	U1
KISD	Sioux Falls, S.D.	1/0.25	U1
WAKI	McMinnville, Tenn.	1/0.25	U1
KSIX	Corpus Christi, Tex.	1/0.25	U1
KNUZ	Houston, Tex.	1/0.25	U1
KERV	Kerrville, Tex.	1/0.25	U1
KLVT	Levelland, Tex.	1/0.25	U1
KEEE	Nacogdoches, Tex.	1/0.25	U1
KOSA	Odessa, Tex.	1/0.25	U1
KSEY	Seymour, Tex.	1/0.25	SH1
KSST	Sulphur Spgs., Tex.	1/0.25	U1
KWTX	Waco, Tex.	1/0.25	U1
KMOR	Murray, Utah	1/0.25	U1
KOAL	Price, Utah	1/0.25	U1
WJOY	Burlington, Vt.	1/0.25	U1
WBBI	Abingdon, Va.	1/0.25	U1
WODI	Brookneal, Va.	1/0.25	SH1
WCFV	Clifton Forge, Va.	1/0.25	U1
WFVA	Fredericksburg, Va.	1/0.25	U1
WNOR	Norfolk, Va.	1/0.25	U1
KOZI	Chelan, Wash.	1/0.25	U1
KWYZ	Everett, Wash.	1/0.25	U1
KSPO	Spokane, Wash.	1/0.25	U1
KREW	Sunnyside, Wash.	1/0.25	U1
WLOG	Logan, W. Va.	1/0.25	U1
WTAP	Parkersburg, W. Va.	1/0.25	U1
WHBY	Appleton, Wis.	1/0.25	U1
WCLO	Janesville, Wis.	1/0.25	U1
WXCO	Wausau, Wis.	1/0.25	U1
KVOC	Casper, Wyo.	1/0.25	U1
CKTK	Kitimat, B.C.	1/0.25	U1
*	Merritt, B.C.	1/0.25	U1
*	Castlegar, B.C.	1/0.25	U1
CFBV	Smithers, B.C.	1/0.25	U1
CKMP	Midland, Ont.	1/0.25	U1
CJTT	New Liskeard, Ont.	1/0.25	U1
CFPA	Port Arthur, Ont.	1/0.25	U1
CHVD	Dolbeau, Que.	1/0.25	U1
CJSA	Ste. Agathe des		
CJSA	Montes, Que.	1/0.25	U1
CKLD	Thetford Mines, Que.	1/0.25	U1
+ low power: 26 US/12 Can.			
1235			
ZBMI	Hamilton, Bermuda	1	U1
1240			
WEBJ	Brewton, Ala.	1/0.25	SH1
WPRN	Butler, Ala.	1/0.25	U1
WOWL	Florence, Ala.	1/0.25	U1
WARF	Jasper, Ala.	1/0.25	U1
KCYN	Williams, Ariz.	1/0.25	U1
KTLO	Mtn. Home, Ark.	1/0.25	U1
KMBY	Monterrey, Calif.	1/0.25	U1
KRNO	San Bernardino	1/0.25	U1
KROY	Sacramento, Calif.	1/0.25	U1
KSMA	Santa Maria, Calif.	1/0.25	U1
KSUE	Susanville, Calif.	1/0.25	U1
KRDO	Colorado Spgs., Colo.	1/0.25	U1
KDGO	Durango, Colo.	1/0.25	U1
KSLV	Monte Vista, Colo.	1/0.25	U1
WWCO	Waterbury, Conn.	1/0.25	U1
WBGC	Chipley, Fla.	1/0.25	U1
WLCO	Eustis, Fla.	1/0.25	U1
WINK	Ft. Myers, Fla.	1/0.25	U5
WMMB	Melbourne, Fla.	1/0.25	U1
WFOY	St. Augustine, Fla.	1/0.25	U1
WBHB	Fitzgerald, Ga.	1/0.25	U1
WDUN	Gainesville, Ga.	1/0.25	U1
WLAG	LaGrange, Ga.	1/0.25	U1
WBML	Macon, Ga.	1/0.25	U1
WWNS	Statesboro, Ga.	1/0.25	U1
WPAX	Thomasville, Ga.	1/0.25	U1
KVNI	Couer d'Alene, Ida.	1/0.25	U1
WCRW	Chicago, Ill.	1/0.25	ST1
WSBC	Chicago, Ill.	1/0.25	ST1
WEBQ	Harrisburg, Ill.	1/0.25	U1
WTAX	Springfield, Ill.	1/0.25	U1
WHBU	Anderson, Ind.	1/0.25	U1
KDEC	Decorah, Iowa	1/0.25	ST1
KWLC	Decorah, Iowa	1/0.25	ST1
KBIZ	Ottumwa, Iowa	1/0.25	U1
KICD	Spencer, Iowa	1/0.25	U1
KIUL	Garden Cy., Kans.	1/0.25	U1
KAKE	Wichita, Kans.	1/0.25	U1
WINN	Louisville, Ky.	1/0.25	U1
WFTM	Maysville, Ky.	1/0.25	U1
WPKE	Pikeville, Ky.	1/0.25	U1
WSFC	Somerset, Ky.	1/0.25	U1
KASO	Minden, La.	1/0.25	U1
KANE	New Iberia, La.	1/0.25	U1
WCOU	Lewiston, Me.	1/0.25	U1
WMKR	Millinocket, Me.	1/0.25	U1
WCEM	Cambridge, Md.	1/0.25	U1
WJEJ	Hagerstown, Md.	1/0.25	U1
WHAI	Greenfield, Mass.	1/0.25	U1
WOCB	W. Yarmouth, Mass.	1/0.25	U1
WATT	Cadillac, Mich.	1/0.25	U1
WCBY	Cheboygan, Mich.	1/0.25	U1
WJPD	Ishpeming, Mich.	1/0.25	U1
WJIM	Lansing, Mich.	1/0.25	U1
WMFG	Hibbing, Minn.	1/0.25	U1
KPRM	Park Rapids, Minn.	1/0.25	U1
WJON	St. Cloud, Minn.	1/0.25	U1
WMPA	Aberdeen, Miss.	1/0.25	U1
WGRM	Greenwood, Miss.	1/0.25	U1
WGCM	Gulfport, Miss.	1/0.25	U1
KFMO	Flat River, Mo.	1/0.25	U1
KWOS	Jefferson Cy., Mo.	1/0.25	U1
KBMY	Billings, Mont.	1/0.25	U1
KBLL	Helena, Mont.	1/0.25	U1
KFOR	Lincoln, Nebr.	1/0.25	U1
KODY	No. Platte, Nebr.	1/0.25	U1
KELK	Elko, Nev.	1/0.25	U1
WSNJ	Bridgetown, N.J.	1/0.25	U1
KAVE	Carlsbad, N.M.	1/0.25	U1
KCLV	Clovis, N.M.	1/0.25	U1
WGBB	Freeport, N.Y.	1/0.25	U1
WGVA	Geneva, N.Y.	1/0.25	U1
WVOS	Liberty, N.Y.	1/0.25	U1

Call	Location	kW	Hrs.
WNBZ	Saranac Lake, N.Y.	1/0.25	U1
WSNY	Schenectady, N.Y.	1/0.25	U1
WATN	Watertown, N.Y.	1/0.25	U1
WPNF	Brevard, N.C.	1/0.25	U1
WIST	Charlotte, N.C.	1/0.25	U1
WCNC	Elizabeth Cy., N.C.	1/0.25	U1
WJNC	Jacksonville, N.C.	1/0.25	U1
WRNC	Raleigh, N.C.	1/0.25	U1
WBBW	Youngstown, O.	1/0.25	U1
WHIZ	Zanesville, O.	1/0.25	U1
KVSO	Ardmore, Okla.	1/0.25	U1
KBEL	Idabel, Okla.	1/0.25	U1
KOKL	Okmulgee, Okla.	1/0.25	U1
KFLY	Corvallis, Ore.	1/0.25	U1
KTIX	Pendleton, Ore.	1/0.25	U1
KPRB	Redmond, Ore.	1/0.25	SH1
KQEN	Roseburg, Ore.	1/0.25	U1
WRTA	Altoona, Pa.	1/0.25	U1
WHUM	Reading, Pa.	1/0.25	U1
WBAX	Wilkes-Barre, Pa.	1/0.25	U1
WALO	Humacao, P.R.	1/0.25	U1
WWON	Woonsocket, R.I.	1/0.25	U1
WKDK	Newberry, S.C.	1/0.25	U1
WDXY	Sumter, S.C.	1/0.25	U1
KCCR	Pierre, S.D.	1/0.25	U1
WBEJ	Elizabethtown, Tenn.	1/0.25	U1
WEKR	Fayetteville, Tenn.	1/0.25	U1
WBIR	Knoxville, Tenn.	1/0.25	U1
WKDA	Nashville, Tenn.	1/0.25	U1
WENK	Union Cy., Tenn.	1/0.25	U1
KVLF	Alpine, Tex.	1/0.25	U1
KEAN	Brownwood, Tex.	1/0.25	U1
KORA	Bryan, Tex.	1/0.25	U1
KOCA	Kilgore, Tex.	1/0.25	U1
KCKG	Sonora, Tex.	1/0.25	SH1
KXOX	Sweetwater, Tex.	1/0.25	U1
WSKI	Montpelier, Vt.	1/0.25	U1
WSSV	Petersburg, Va.	1/0.25	U1
WROV	Roanoke, Va.	1/0.25	U1
WTON	Staunton, Va.	1/0.25	U1
KXLE	Ellensburg, Wash.	1/0.25	U1
KGY	Olympia, Wash.	1/0.25	U1
WKOY	Bluefield, W. Va.	1/0.25	U1
WTIP	Charleston, W. Va.	1/0.25	U1
WDNE	Elkins, W. Va.	1/0.25	U1
WOMT	Manitowoc, Wis.	1/0.25	U1
WIBU	Poynette, Wis.	1/0.25	U1
WOBT	Rhinelander, Wis.	1/0.25	U1
WJMC	Rice Lake, Wis.	1/0.25	U1
KFBC	Cheyeene, Wyo.	1/0.25	U1
KEVA	Evanston, Wyo.	1/0.25	U1
KASL	Newcastle, Wyo.	1/0.25	U1
KRAL	Rawlins, Wyo.	1/0.25	U1
KTHE	Thermopolis, Wyo.	1/0.25	U1
CFVR	Abbotsford, B.C.	1/0.25	U5
CKOO	Osoyoos, B.C.	1/0.25	U1
CJAV	Port Alberni, B.C.	1/0.25	U1
CJWA	Wawa, Ont.	1/0.25	U1
CJAF	Cabano, Que.	1/0.25	U1
CFLM	La Tuque, Que.	1/0.25	U1
*	Chibaugamau, Que	1/0.25	U1
XELM	Tuxtla Gutierrez, Chis.	1	U1
XEBN	Cd. Delicias, Coah.	1	U1
XERZ	Leon, Gto.	1/0.25	U1
XELD	Autlan de Navarro, Jal.	1	U1
XENG	Huahuachinango, Pue.	1	U1
XEBQ	Guyamas, Son.	1/0.5	U1
XES	Tampico, Tams.	1	U1
XEMQ	Merida, Yuc.	1	U1
+low power: 24 US/18 Can/7 Mex.			
1250			
WZOB	Ft. Payne, Ala.	1	D1
WETU	Wetumpka, Ala.	5	D1
KHIL	Wilcox, Ariz.	5	D1
KFAY	Fayetteville, Ark.	1	D1
KALO	Little Rock, Ark.	1/0.5	U2
KTMS	Santa Barbara, Calif.	1	U3
KDHI	Twentynine Palms, Calif.	1	D1
KICM	Golden, Colo.	1	D3
WNER	Live Oak, Fla.	1	D1
WDAE	Tampa, Fla.	5	U3
WLYB	Albany, Ga.	1	D1
WYTH	Madison, Ga.	1	D1
WGL	Ft. Wayne, Ind.	1	U4
WRAY	Princeton, Ind.	1	D1
KFKU	Lawrence, Kans.	5	ST2
WREN	Topeka, Kans.	5	ST2
WGUY	Bangor, Me.	5	D1
WARE	Ware, Mass.	1	U2
WXOX	Bay City, Mich.	1	D1
KBRF	Fergus Falls, Minn.	1	U2
KCUE	Red Wing, Minn.	1	D1
WHNY	McComb, Miss.	5/0.5	U2
KBTC	Houston, Mo.	1	D1
WKBR	Manchester, N.H.	5	U4
WMTR	Morristown, N.J.	5	D3
WIPS	Ticonderoga, N.Y.	1	D1
WKDX	Hamlet, N.C.	1	D1
WBRM	Marion, N.C.	1	D1
WLEM	Emporium, Pa.	1	D1
WPEL	Montrose, Pa.	1	D1
WTAE	Pittsburgh, Pa.	5	U2
WNOW	York, Pa.	1	D1
WTMA	Charleston, S.C.	5/1	U2
WKBL	Covington, Tenn.	1	D1
KPAC	Port Arthur, Tex.	5/1	U2
KUKA	San Antonio, Tex.	1	D1
KIKZ	Seminole, Tex.	1	D1
KVEL	Vernal, Utah	5	D1
WDVA	Danville, Va.	5	U2
WYSR	Franklin, Va.	1	D1
WEER	Warrenton, Va.	1	D1
KWSC	Pullman, Wash.	5	ST1
KTW	Seattle, Wash.	5	ST1
WEMP	Milwaukee, Wis.	5	U3
CHSN	Steinbach, Man.	10	U4
CHWO	Oakville, Ont.	1	U3
CBOF	Ottawa, Ont.	10	U3
*CKJD	Sarnia, Ont.	1	U4
CKBL	Matane, Que.	10/5	U2
CKOM	Saskatoon, Sask.	10	U2
XESJ	Saltillo, Coah.	1/0.5	U1
XEPI	Tixtla, Gro.	1	U1
XEDK	Guadalajara, Jal.	5	U1
XEJX	Queretaro, Qro.	1/0.1	U1
XEDL	Hermosillo, Son.	1/0.5	U1
+low power: 13 US/3 Mex.			
1260			
WCRT	Birmingham, Ala.	5	D1
KPIN	Casa Grande, Ariz.	1	D1
KCCB	Corning, Ark.	1	D1
KGIL	San Fernando, Calif.	5/1	U4
KYA	San Francisco, Calif.	5/1	U1
KSNO	Aspen, Colo.	5	D1
WMMM	Westport, Conn.	1	D3
WWDC	Washington, D.C.	5	U4
WFTW	Ft. Walton Bch., Fla.	1	D1
WAME	Miami, Fla.	5	U4
WWPF	Palatka, Fla.	1/0.5	U2
WHAB	Baxley, Ga.	5	D1
WBBK	Blakeley, Ga.	1	D1
WTJH	East Point, Ga.	5	D1
KTEE	Idaho Falls, Ida.	5	D1
KWEI	Weiser, Ida.	1	D1
WIBV	Belleville, Ill.	5	U4
WFBM	Indianapolis, Ind.	5	U2
KFGQ	Boone, Ia.	1	D1
KWHK	Hutchinson, Kan.	1/0.5	U4
WAIL	Baton Rouge, La.	1	D1
WEZE	Boston, Mass.	5	U2
WALM	Albion, Mich.	1/0.5	U2
WJBL	Holland, Mich.	5	D3
KROX	Crookston, Minn.	1/0.5	U2
KDUZ	Hutchinson, Minn.	1	D1
WGVM	Greenville, Miss.	5	D1
WNSL	Laurel, Miss.	5	D1
KGBX	Springfield, Mo.	5	U2
KIMB	Kimball, Nebr.	1	D1
WBUD	Trenton, N.J.	5/1	U4
KVSF	Santa Fe, N.M.	1	U1
WBNR	Beacon, N.Y.	1	D3
WNDR	Syracuse, N.Y.	5	U2
WGWR	Asheboro, N.C.	5/0.5	U4
WCDJ	Edenton, N.C.	1	D1
WIXY	Cleveland, Ohio	5	U4
WNXT	Portsmouth, Ohio	5/1	U4
KWSH	Wewoka, Okla.	1	U2
KMCM	McMinnville, Ore.	1	U2
WWYN	Erie, Pa.	5	U4
WPHB	Philipsburg, Pa.	5	D1
WISO	Ponce, P.R.	1	U1
WMUU	Greenville, S.C.	5	D1
WJOT	Lake City, S.C.	1	D1
KWYR	Winner, S.D.	5	D1
WNOO	Chatanooga, Tenn.	1	D1
WMCH	Church Hill, Tenn.	1	D1
WDKN	Dickson, Tenn.	1	D1
WCLC	Jamestown, Tenn.	1	D1
KSPL	Diboll, Tex.	1	D1
KWFR	San Angelo, Tex.	1	D1
KTAE	Taylor, Tex.	1	D1
KTUE	Tulia, Tex.	1	D1
WCHV	Charlottesville, Va.	5/1	U4
WJJJ	Christianburg, Va.	1	D1
KWIQ	Moses Lake, Wash.	1	D1
WVVW	Grafton, W. Va.	0.5	D1
WWIS	Black River Falls	1	D1
WEKZ	Monroe, Wis.	1	D1
WOCO	Oconto, Wis.	1	D1
KPOW	Powell, Wyo.	5/1	U2
CFRN	Edmonton, Alta.	50	U2
XEMF	Monclova, Coah.	1	U1
XEOG	Ojinaga, Chih.	1	D1
XEL	Mexico, D.F.	10/5	U1
XER	Linares, N.L.	1/0.25	U1
+low power: 4 US/2 Mex.			
1270			
WGSV	Guntersville, Ala.	1	D1
WZAM	Prichard, Ala.	1	D1
KBYR	Anchorage, Alas.	1	U1
KDJI	Holbrook, Ariz.	5	D1
KADL	Pine Bluff, Ark.	5	D1
KCOK	Tulare, Calif.	5/1	U2
WHIY	Orlando, Fla.	5	D1
WTNT	Tallahasee, Fla.	5	U2
WHYD	Columbus, Ga.	5	D1
WJJC	Commerce, Ga.	1	D1
KTFI	Twin Falls, Ida.	5/1	U1
WEIC	Charleston, Ill.	1	D3
WHBF	Rock Island, Ill.	5	U2
WCMR	Elkhart, Ind.	5/0.5	U4
WWCA	Gary, Ind.	1	U3
WORX	Madison, Ind.	1	D3
KSCB	Liberal, Kans.	1/0.5	U2
WAIN	Columbia, Ky.	1	D1
WFUL	Fulton, Ky.	1	D1
KCVL	Winnfield, La.	1	D1
WUOK	Cumberland, Md.	5/1	U4
WSPR	Springfield, Mass.	5/1	U3
WXYZ	Detroit, Mich.	5	U2
KWEB	Rochester, Min.	5/1	U4
WVOM	Iuka, Miss.	1	D1
WLSM	Louisville, Miss.	1	D1
KUSN	St. Joseph, Mo.	1	D1
KBUB	Sparks, Nev.	1	D1
WTSN	Dover, N.H.	5	U4
KINN	Alamogordo, N.M.	1	D1
WHLD	Niagra Falls, N.Y.	5	D3
WDLA	Walton, N.Y.	1	D1
WCGC	Belmont, N.C.	1/0.5	U2
WMPM	Smithfield, N.C.	5	D1
KBOM	Mandan, N.D.	1/0.25	U1
WILE	Cambridge, Ohio	1	D1
KAJO	Grants Pass, Ore.	5	D1
WLBR	Lebanon, Pa.	5/1	U4
WBHC	Hampton, S.C.	1	D1
KNWC	Sioux Falls, S.D.	1	U2
WLIK	Newport, Tenn.	5	D1
KIOX	Bay City, Tex.	1	U2
KHEM	BigSprings, Tex.	1	D1
KEPS	Eagle Pass, Tex.	1	D1
KFJZ	Fort Worth, Tex.	5	U3
WTID	Newport News, Va.	1	D1
WHEO	Stuart, Va.	1	D1
KCVL	Colville, Wash.	1	D1
KBAM	Longview, Wash.	5	D1
WWJC	Superior, Wis.	5	D1
KIML	Gillette, Wyo.	5/1	U2
CHAT	Medicine Hat, Alta.	10	U2
CHWK	Chilliwack, B.C.	10	U2
CJQM	Winnipeg, Man.	10	U2
CJCB	Sydney, N.S.	10	U2
CFGT	St. Joseph d'Alma, Que.	1	U2
XERPL	Leon, Gt.	1/0.15	U1
XEAX	Oaxaca, Oax.	5/0.5	U1
XENX	Mazatlan, Sin.	1	U1
XEGL	Navojoa, Son.	1/0.5	U1
XENY	Nogales, Son.	1	U1
XEMW	San Luis Rio Col.	1	D1
XEPV	Papantla, Ver.	1	U1
+low power: 7 US/5 Mex.			
1280			
WPID	Piedmont, Ala.	1	D1
WNPT	Tuscaloosa, Ala.	5/0.5	U2
KHEP	Phoenix, Ariz.	1	D1
KNBY	Newport, Ark.	1	D1
KOAG	Arroyo Grande, Calif.	1	U2
KIXF	Fortuna, Calif.	1	D1
KFOX	Long Beach, Calif.	1	U1
KJOY	Stockton, Calif.	1	U2
KTLN	Denver, Colo.	5	U4
WSUX	Seaford, Del.	1	D1
WDSP	De Funiak Spgs., Fla.	5	D1
WIPC	Lake Wales, Fla.	1	D1
WIBB	Macon, Ga.	5	D1
WMRO	Aurora, Ill.	1/0.5	U4
WGBF	Evansville, Ind.	5/1	U2
KCOB	Newton, Iowa	1	D1
KSOK	Arkansas Cy., Kans.	1/0.1	U1
WCPM	Cumberland, Ky.	1	D1
WIXI	Lancaster, Ky	1	D1
WDSU	New Orleans, La.	5	U3
KWCL	Oak Grove, La.	1	D1
WABK	Gardiner, Me.	5	U3
WEIM	Fitchburg, Mass.	5/1	U4
WFYC	Alma, Mich.	1	D1
WWTC	Minneapolis, Minn.	5	U2
KVOX	Moorhead, Minn.	1/0.5	U2
KDKD	Clinton, Mo.	1	D1
KCNI	Broken Bow, Nebr.	1	D1
KTOO	Henderson, Nev.	5	D1

Call	Location	kW	Hrs.
KRZE	Farmington, N.M.	5	D1
WADO	New York, N.Y.	5	U3
WROC	Rochester, N.Y.	5	U2
WSAT	Salisbury, N.C.	1	U2
WYAL	Scotland Neck, N.C.	5	D1
WONW	Defiance, O.	1/0.5	U2
WLMJ	Jackson, O.	1	D1
KLCO	Poteau, Okla.	1	D1
KERG	Eugene, Ore.	5/1	U2
WBRX	Berwick, Pa.	1	D1
WHYR	Hanover, Pa.	5/0.5	U4
WKST	New Castle, Pa.	1	U2
WCMN	Arecibo, P.R.	5/1	U1
WANS	Anderson, S.C.	5/1	U2
WJAY	Mullins, S.C.	5	D1
WMCP	Columbia, Tenn.	1	D1
WDNT	Dayton, Tenn.	1	D1
KWHI	Brenham, Tex.	1	D1
KLUE	Longview, Tex.	1	D1
KNAK	Salt Lake Cy., Utah	5/0.5	U2
WYVE	Wytheville, Va.	1	D1
KMAS	Shelton, Wash.	1	D1
KUDY	Spokane, Wash.	5	D3
KIT	Yakima, Wash.	5/1	U1
WNAM	Neenah-Menasha, Wis.	5/1	U4
CHQB	Powell River, B.C.	1	U5
CHAM	Hamilton, Ont.	10/5	U4
CJMS	Montreal, Que.	50	U4
CKCV	Quebec, Que.	10/5	U4
CJSL	Esteven, Esteven, Sask.	1	U3
XECAM	Campache, Cam.	1	U1
XEBW	Chihuahua, Chih.	1/0.6	U1
XEQP	Guadalajara, Jal.	1/0.25	U1
XEAW	Monterrey, N.L.	5/0.5	U1
XEZS	Coatzacoalcos, Ver.	1	U1
XEAG	Cordoba, Ver.	1	U1
+ low power: 7 US/3 Mex.			
1290			
WHOD	Jackson, Ala.	1	D1
WSHF	Sheffield, Ala.	1	D1
WMLS	Sylacauga, Ala.	1	D1
KEOS	Flagstaff, Ariz.	1	D1
KCUB	Tucson, Ariz.	1	U1
KDMS	El Dorado, Ark.	5	D1
KUOA	Siloam Spgs., Ark.	5	D1
KHSL	Chico, Calif.	5	U2
KAZA	Gilroy, Calif.	5	D3
KMEN	San Bernardino, Calif.	5	U4
WTUX	Wilmington, Del.	1	D1
WTMC	Ocala, Fla.	5/1	U2
WIRK	W. Palm Bch., Fla.	5/1	U2
WDEC	Americus, Ga.	1	D1
WCHK	Canton, Ga.	1	D1
WTOC	Savannah, Ga.	5	U2
KSNN	Pocatello, Ida.	1	D1
WIRL	Peoria, Ill.	5	U4
KWNS	Pratt, Kans.	5/0.5	U4
WCBL	Benton, Ky.	5	D1
KJEF	Jennings, La.	1	D1
WHGR	Houghton Lake, Mich.	5	U2
WBLE	Batesville, Miss.	1	D1
*	Tylertown, Miss.		
KALM	Thayer, Mo.	1	D1
KGVO	Missoula, Mont.	5	U3
KOIL	Omaha, Nebr.	5	U2
WKNE	Keene, N.H.	5	U3
KSRC	Socorro, N.M.	1	D1
WGLI	Babylon, N.Y.	5/1	U4
WNBF	Binghamtop, N.Y.	5	U2
WHKY	Hickory, N.C.	5/1	U2
*WBBS	Jacksonville, N.C.	1	D1
WEYE	Sanford, N.C.	1	D1
WOMP	Bellaire, O.	1	D1
WHIO	Dayton, O.	5	U2
KUMA	Pendleton, Ore.	5	U2
KLIQ	Portland, Ore.	5	D1
WFBC	Altoona, Pa.	5/1	U4
WICE	Providence, R.I.	5/1	U4
WFIG	Sumter, S.C.	1	U2
*	Jacksonville, Tenn.	1	D1
WATO	Oak Ridge, Tenn.	5/0.5	U4
KBLT	Big Lake, Tex.	1	D1
KRGV	Weslaco, Tex.	5	U2
KTRN	Wichita Falls, Tex.	5/1	U2
WPVA	Colonial Hts.-Petersburg, Va.	5	D1
WAGE	Leesburg, Va.	1	D1
WKWS	Rocky Mount, Va.	1	D1
KAPY	Port Angeles, Wash.	1	D3
WVOW	Logan, W. Va.	5/1	U2
WMIL	Milwaukee, Wis.	1	D1
WCOW	Sparta, Wis.	5	D1
KOWB	Laramie, Wyo.	5/1	U4
CFAM	Altona, Man.	10/5	U4
CJOE	London, Ont.	5	U3
XEDA	Mexico, D.F.	1	U1
XEIX	Jiquilpan, Mich.	1	D1
XEAP	Cd. Obregon, Son.	1	U1
+ low power: 8 US/2 Mex.			
1300			
WBSA	Boaz, Ala.	1	D1
WTLS	Tallassee, Ala.	1	D1
WEZO	Winfield, Ala.	1	D1
KHAC	Window Rock, Ariz.	1	D1
KWCB	Searcy, Ark.	1	D1
KROP	Brawley, Calif.	1/0.5	U1
KYNO	Fresno, Calif.	5/1	U2
†	Mendocino, Cal.	1	D1
KWKW	Pasadena, Calif.	5/1	U4
KVOR	Colorado Spgs., Colo.	5/1	U1
WAVZ	New Haven, Conn.	1	U2
WRKT	Cocoa Bch, Fla.	5/1	U4
WSOL	Tampa, Fla.	5	D3
WMTM	Moultrie, Ga.	5	D1
WIMO	Winder, Ga.	1	D1
KOZE	Lewiston, Ida.	5/1	U2
WTAQ	La Grange, Ill.	5/0.5	U4
WFRX	W. Frankfort, Ill.	1	D1
KGLO	Mason City, Iowa	5	U2
WBLG	Lexington, Ky.	1	U2
WIBR	Baton Rouge, La.	1	U4
KANB	Shreveport, La.	1	D1
WFBR	Baltimore, Md.	5	U3
WJDA	Quincy, Mass.	1	D1
WOOD	Grand Rapids, Mich.	5	U2
WKPM	Princeton, Minn.	1	D1
WRBC	Jackson, Miss.	5/1	U1
KMMO	Marshall, Mo.	1	D1
KBRL	McCook, Nebr.	5	D3
KPTL	Carson City, Nev.	5/0.5	U2
WPNH	Plymouth, N.H.	1	D1
WAAF	Trenton, N.J.	5	D3
WOSC	Fulton, N.Y.	1	D1
WMMJ	Lancaster, N.Y.	1	D3
WEEE	Rensselaer, N.Y.	5	D3
WGOL	Goldsboro, N.C.	1	D1
WSYD	Mt. Airy, N.C.	5/1	U2
WERE	Cleveland, O.	5	U3
KOME	Tulsa, Okla.	5/1	U4
KDOV	Medford, Ore.	5	D1
KACI	The Dalles, Ore.	1	D1
WHZN	Hazleton, Pa.	1	D3
WTIL	Mayaguez, P.R.	1	U1
WCKI	Greer, S.C.	1	D1
KOLY	Mobridge, S.D.	1	D1
WMTN	Morristown, Tenn.	5	D3
WMAK	Nashville, Tenn.	5	U2
KVET	Austin, Tex.	5/1	U4
KKUB	Brownfield, Tex.	1	D1
KGNS	Laredo, Tex.	1	D1
KOL	Seattle, Wash.	5	U2
WCLG	Morgantown, W. Va.	1	D1
WKLC	St. Albans, W. Va.	1	D1
CBAF	Moncton, N.B.	5	U3
CJME	Regina, Sask.	1	U3
XEP	Cd. Juarez, Chih.	1/0.5	U1
XESW	Cd. Madero, Chih.	1	D1
XEKW	Morelia, Mich.	1	U1
XEJL	Guamuchil, Sin.	1	U1
XEXW	Nogales, Son.	1/0.1	U1
XELE	Tampico, Tams.	1	U1
XEHU	Martinez de la Torre, Ver.	1	U1
+ low power: 13 US.			
1310			
WHEP	Foley, Ala.	1	D1
WJAM	Marion, Ala.	5	D1
KBUZ	Mesa, Ariz.	5/0.5	U2
KBOK	Malvern, Ark.	1	D1
KIOT	Barstow, Calif.	5	D3
KPOD	Crescent Cy., Calif.	1	D1
KDIA	Oakland, Calif.	5	U3
KTKR	Taft, Calif.	1	D1
KFKA	Greeley, Colo.	5/1	U2
WICH	Norwich, Conn.	5/1	U4
WOOO	DeLand, Fla.	5	D1
WGKR	Perry, Fla.	1	D1
WOKA	Douglas, Ga.	1	D1
WBRO	Waynesboro, Ga.	1	D1
WBMK	West Point, Ga.	1	D1
KLIX	Twin Falls, Ida.	5/1	U2
WIFE	Indianapolis, Ind.	5/1	U2
KOKX	Keokuk, Iowa	1/0.5	U2
WTTL	Madisonville, Ky.	1/0.5	U2
WDOC	Prestonburg, Ky.	5	D1
KUZN	W. Monroe, La.	1	D1
WLOB	Portland, Me.	5	U4
WORC	Worcester, Mass.	5/1	U4
WKNR	Dearborn, Mich.	5	U4
WCOW	Traverse City, Mich.	5	D1
KRBI	St. Peter, Minn.	1	D3
WXXX	Hattiesburg, Miss.	1	D1
KSFB	Joplin, Mo.	5/1	U4
KFBB	Great Falls, Mont.	5	U2
WJLK	Asbury Park, N.J.	1/0.25	U5
WCAM	Camden, N.J.	1/0.25	U1
KARA	Albuquerque, N.M.	1	D1
WVIP	Mt. Kisco, N.Y.	5	D3
WTLB	Utica, N.Y.	1/0.5	U2
WISE	Asheville, N.C.	5/1	U2
WKTC	Charlotte, N.C.	1	D1
WTIK	Durham, N.C.	5/1	U4
KNOX	Grand Forks, N.D.	5	U2
WFAH	Alliance, O.	1	D3
KNPT	Newport, Ore.	5/1	U2
WBFD	Bedford, Pa.	5	D1
WGSA	Ephrata, Pa.	5	D3
WNAE	Warren, Pa.	5	D1
WDKD	Kingstree, S.C.	5	D1
WDOD	Chattanooga, Tenn.	5	U2
WDXI	Jackson, Tenn.	5/1	U2
WBNT	Oneida, Tenn.	1	D1
KZIP	Amarillo, Tex.	1	D1
WRR	Dallas, Tex.	5	U2
KOYL	Odessa, Tex.	1	D1
KBUC	San Antonio, Tex.	5	D3
WEEL	Fairfax, Va.	5/0.5	U4
WGH	Newport News, Va.	5	U2
KARY	Prosser, Wash.	1	D1
WIBA	Madison, Wis.	5	U2
*	Westlock, Alta.	5	U2
CKOY	Ottawa, Ont.	50	U4
CFGM	Richmond Hill, Ont.	10/2.5	U3
CHGB	Ste. Anne de la Pocatierre, Que.	5	U2
XERU	Chihuahua, Chih.	1/0.25	U1
XEBP	Torreon, Coah.	10/0.25	U1
XETIA	Guadalajara, Jal.	1	U1
XEIZ	Monterrey, N.L.	1	U1
XEVI	San Juan del Rio, Qro.	1	D1
XEPO	San Luis Potosi, S.L.P.	1/0.25	U1
XEFH	Agua Prieta, Son.	1	D1
XEAM	Matamoros, Tams.	1	U1
XEHV	Veracruz, Ver.	1	U1
+ low power: 6 US/3 Mex.			
1320			
WENN	Birmingham, Ala.	5	D1
WAGF	Dothan, Ala.	1	U2
KWHN	Ft. Smith, Ark.	5	U2
KRLW	Walnut Ridge, Ark.	1	D1
KLAN	Lemoore, Calif.	1	D3
KCRA	Sacramento, Calif.	5/1	U4
KAVI	Rocky Ford, Colo.	1	D1
WATR	Waterbury, Conn.	5/1	U4
WGMA	Hollywood, Fla.	5	U4
WVOF	Jacksonville, Fla.	5	U2
WHIE	Griffin, Ga.	5	D1
WKAN	Kankakee, Ill.	1/0.5	U2
WBRT	Bardstown, Ky.	1	D1
WNGO	Mayfield, Ky.	1	D1
KHAL	Homer, La.	1	D1
WICO	Salisbury, Md.	1	D1
WARA	Attleboro, Mass.	1	U4
WILS	Lansing, Mich.	5/1	U4
WDMJ	Marquette, Mich.	1	U2
WRJW	Picayune, Miss.	5	D1
KXLW	Clayton, Mo.	1	D1
KOLT	Scottsbluff, Nebr.	5/1	U2
KRDD	Roswell, N.M.	1	D1
WWHG	Hornell, N.Y.	5	D1
WAGY	Forest City, N.C.	1	D1
WCOG	Greensboro, N.C.	5/1	U3
WKRK	Murphy, N.C.	5	D1
KHRT	Minot, N.D.	1	D1
WHOK	Lancaster, O.	1	D1
KWOE	Clinton, Okla.	1	D1
KATR	Eugene, Ore.	1	D1
WKAP	Allentown, Pa.	5/1	U4
WGET	Gettysburg, Pa.	1/0.5	U4
WJAS	Pittsburgh, Pa.	5	U2
WSCR	Scranton, Pa.	1/0.5	U2
WUNO	Rio Piedras, P.R.	5/1	U1
WOIC	Columbia, S.C.	5/1	U2
KELO	Sioux Falls, S.D.	5	N2
WKIN	Kingsport, Tenn.	5	D1
WMSR	Manchester, Tenn.	5	D1
KVMC	Colorado Cy., Tex.	1	D1
KXYZ	Houston, Tex.	5	U2
KCPX	Salt Lake C., Utah	5	U3
*WCVR	Randolph, Vt.	1	D1
WDMS	Lynchburg, Va.	1	D1
WEET	Richmond, Va.	1	D1
KXRO	Aberdeen, Wash.	5/1	U2
KHIT	Walla Walla, Wash.	1	D1
WFHR	Wisconsin Rapids, Wis.	5/0.5	U2
CHOM	Vancouver, B.C.	50	U4
CKEC	New Glasgow, N.S.	5	U2
CKKW	Kitchener-Waterloo, Ont.	1	U4
*	Trenton, Ont.	1/0.5	U4
CJSO	Sorel, Que.	10/5	U4
XEUI	Comitan, Chis.	1	U1
XEAI	Mexico, D.F.	10	U2

Call	Location	kW	Hrs.
XEN1	Nueva Italia, Mich.	1	U1
XERJ	Mazatlan, Sin.	5	U1
+ low power: 10 US/1 Can/1 Mex.			
1330			
WROS	Scottsboro, Ala.	1	D1
KLOM	Lompoc, Calif.	1	D3
KFAC	Los Angeles, Calif.	5	U2
KAHR	Redding, Calif.	5	D1
WARN	Ft. Pierce, Fla.	1/0.5	U2
WWAB	Lakeland, Fla.	1	D1
WMEN	Tallahassee, Fla.	5	D1
WMLT	Dublin, Ga.	5/0.5	U2
WEAW	Evanston, Ill.	5	D3
WRAM	Monmouth, Ill.	1	D3
WRRR	Rockford, Ill.	1	D3
WJPS	Evansville, Ind.	5/1	U2
KWWL	Waterloo, Iowa	5	U4
KFH	Wichita, Kans.	5	U2
WYGO	Corbin, Ky.	5	D3
WMOR	Morehead, Ky.	1	D1
KVOL	Lafayette, La.	5/1	U2
WASA	Havre de Grace, Md.	5	D1
WCRB	Waltham, Mass.	5	U4
WTRX	Flint, Mich.	5/1	U4
WLOL	Minneapolis, Minn.	5	U4
WFTO	Fulton, Miss.	1	D1
WJPR	Greenville, Miss.	1/0.5	U2
WDAL	Meridian, Miss.	1	D1
KUKU	Willow Spgs., Mo.	1	D1
KGAK	Gallup, N.M.	5/1	U2
WEVD	New York, N.Y.	5	ST4
WPOW	New York, N.Y.	5	ST3
WEBO	Owego, N.Y.	1	D1
WHAZ	Troy, N.Y.	1	SH1
WUSM	Havelock, N.C.	1	D1
WHOT	Campbell, O.	1/0.5	U4
WFIN	Findlay, O.	1	D1
KPOJ	Portland, Ore.	5	U3
WRIE	Erie, Pa.	5	U4
WLAT	Conway, S.C.	5/0.5	U2
WFBC	Greenville, S.C.	5/0.5	U2
WAEW	Crossville, Tenn.	1	D1
KINE	Kingsville, Tex.	1	D1
KVKM	Monahans, Tex.	5/1	U2
KZAK	Tyler, Tex.	1	D1
WBTM	Danville, Va.	5/1	U2
WRAA	Luray, Va.	1	D1
WOLD	Marion, Va.	1	D1
WESR	Tasley, Va.	5	D1
KCFA	Spokane, Wash.	5	D1
WETZ	New Martinsville, W. Va.	1	D1
WHBL	Sheboygan, Wis.	5/1	U4
KOVE	Lander, Wyo.	5/1	U2
CKKR	Rosetown, Sask.	10	U3
XEWQ	Monclova, Coah.	1	U1
XEBO	Irapuato, Gto.	1	U2
XERP	Tampico, Tams.	1	U1
XEUZ	Martinez de la Torre, Ver.	1	U1
XEFC	Merida, Yuc.	1	U1
+ low power: 10 US/1 Mex.			
1340			
WKUL	Cullman, Ala.	1/0.25	U1
WJOI	Florence, Ala.	1/0.25	U1
WAMA	Selma, Ala.	1/0.25	U1
WFEB	Sylacauga, Ala.	1/0.25	U1
KIKO	Miami, Ariz.	1/0.25	U1
*KPGE	Page, Ariz.	1/0.25	U1
KENT	Presscott, Ariz.	1/0.25	U1
KBTA	Batesville, Ark.	1/0.25	U1
KZNG	Hot Springs, Ark.	1/0.25	U1
KBRS	Sprindale, Ark.	1/0.25	U1
KATA	Arcata, Calif.	1/0.25	U1
KMAK	Fresno, Calif.	1/0.25	U1
KAOR	Oroville, Calif.	1/0.25	U1
KATY	San Luis Obispo	1/0.25	U1
KIST	Santa Barbara, Calif.	1/0.25	U1
KOMY	Watsonville, Calif.	1/0.25	U1
KDEN	Denver, Colo.	1/0.25	U1
KVRH	Salida, Colo.	1/0.25	SH1
WNHC	New Haven, Conn.	1/0.25	U1
WOOK	Washington, D.C.	1/0.25	U1
WROD	Daytona Bch., Fla.	1/0.25	U1
WDSR	Lake City, Fla.	1/0.25	U1
WTYS	Mariana, Fla.	1/0.25	U1
WSEB	Sebring, Fla.	1/0.25	U1
WFSH	Valparaiso-Niceville, Fla.	1/0.25	U1
WGAU	Athens, Ga.	1/0.25	U1
WIGO	Atlanta, Ga.	1/0.25	U1
WBBO	Augusta, Ga.	1/0.25	U1
WGAA	Cedartown, Ga.	1/0.25	U1
WOKS	Columbus, Ga.	1/0.25	U1
WBBT	Lyons, Ga.	1/0.25	U1
WTIF	Tifton, Ga.	1/0.25	U1
KSKI	Hailey, Ida.	1/0.25	U1
KAIN	Nampa, Ida.	1/0.25	U1
WSOY	Decatur, Ill.	1/0.25	U1
WJPF	Herrin, Ill.	1/0.25	U1
WJOL	Joliet, Ill.	1/0.25	U1
WBIW	Bedford, Ind.	1/0.25	U1
WTRC	Elkhart, Ind.	1/0.25	U1
WLBC	Muncie, Ind.	1/0.25	U1
KROS	Clinton, Iowa	1/0.25	U1
KCKN	Kansas Cy., Kans.	1/0.25	U1
KSEK	Pittsburg, Kans.	1/0.25	U1
WCMI	Ashland, Ky.	1/0.25	U1
WBGN	Bowling Green, Ky.	1/0.25	U1
WNBS	Murray, Ky.	1/0.25	U1
WEKY	Richmond, Ky.	1/0.25	U1
KRMD	Shreveport, La.	1/0.25	U1
KVOB	Bostrop, La.	1/0.25	U1
WFAU	Augusta, Me.	1/0.25	U1
WHOU	Houlton, Me.	1/0.25	U1
WGAW	Gardner, Mass.	1/0.25	U1
WNBH	New Bedford, Mass.	1/0.25	U1
WBRK	Pittsfield, Mass.	1/0.25	U1
WLEW	Bad Axe, Mich.	1/0.25	U5
WLAV	Grand Rapids, Mich.	1/0.25	U1
WMTE	Manistee, Mich.	1/0.25	U1
WAGN	Menominee, Mich.	1/0.25	U1
WMBN	Petoskey, Mich.	1/0.25	U1
WEXL	Royal Oak, Mich.	1/0.25	U5
KDLM	Brainerd, Minn.	1/0.25	U1
KVBR	Detroit Lakes, Minn.	1/0.25	U1
WEVE	Eveleth, Minn.	1/0.25	U1
KROC	Rochester, Minn.	1/0.25	U1
KWLM	Willmar, Minn.	1/0.25	U1
WJMB	Brookhaven, Miss.	1/0.25	SH1
WKOZ	Kosciusko, Miss.	1/0.25	U1
WAML	Laurel, Miss.	1/0.25	U1
KXEO	Mexico, Mo.	1/0.25	U1
KLID	Poplar Bluff, Mo.	1/0.25	U1
KSMO	Salem, Mo.	1/0.25	U1
KICK	Springfield, Mo.	1/0.25	U1
KCAP	Helena, Mont.	1/0.25	U1
KPRK	Livingstone, Mont.	1/0.25	SH1
KATL	Miles City, Mont.	1/0.25	U1
KGFW	Kearney, Nebr.	1/0.25	U1
KSID	Sidney, Nebr.	1/0.25	U1
KRAM	Las Vegas, Nev.	1/0.25	U1
KBET	Reno, Nev.	1/0.25	U1
WDCR	Hanover, H.H.	1/0.25	U1
WMID	Atlantic City, N.J.	1/0.25	U1
KHAP	Aztec, N.M.	1/0.25	U1
KRRR	Ruidoso, N.M.	1/0.25	U1
KSIL	Silver City, N.M.	1/0.25	U1
KKIT	Taos, N.M.	1/0.25	U1
WMBO	Auburn, N.Y.	1/0.25	U1
WENT	Gloversville, N.Y.	1/0.25	U1
WMSA	Massena, N.Y.	1/0.25	SH1
WALL	Middletown, N.Y.	1/0.25	U1
WIRY	Plattsburg, N.Y.	1/0.25	U1
WOOW	Greenville, N.C.	1/0.25	U1
WJRI	Lenoir, N.C.	1/0.25	U1
WTSB	Lumberton, N.C.	1/0.25	U1
WOXF	Oxford, N.C.	1/0.25	U1
WGNI	Wilmington, N.C.	1/0.25	U1
WAIR	Winston-Salem, N.C.	1/0.25	U1
KGPC	Grafton, N.D.	1/0.25	U1
WNCO	Ashland, O.	1/0.25	U1
WIZE	Springfield, O.	1/0.25	U1
WSTV	Steubenville, O.	1/0.25	U1
KOCY	Oklahoma City, Okla.	1/0.25	U1
KLOO	Corvallis, Ore.	1/0.25	U1
KBBR	North Bend, Ore.	1/0.25	U1
WCVI	Connellsville, Pa.	1/0.25	U1
WKRZ	Oil City, Pa.	1/0.25	ST5
WHAT	Philadelphia, Pa.	1/0.25	U1
WRAW	Reading, Pa.	1/0.25	U1
WTRN	Tyrone, Pa.	1/0.25	U1
WBRE	Wilkes-Barre, Pa.	1/0.25	U1
WWPA	Williamsport, Pa.	1/0.25	U1
WOKE	Charleston, S.C.	1/0.25	U1
WRHI	Rock Hill, S.C.	1/0.25	U1
WSSC	Sumte, S.C.	1/0.25	U1
KIJV	Huron, S.D.	1/0.25	U1
KRSD	Rapid City, S.D.	1/0.25	U1
WBAC	Cleveland, Tenn.	1/0.25	U1
WKRM	Columbia, Tenn.	1/0.25	U1
WGRV	Greenville, Tenn.	1/0.25	U1
WKGN	Knoxville, Tenn.	1/0.25	U1
WLOK	Memphis, Tenn.	1/0.25	U1
WCDT	Winchester, Tenn.	1/0.25	U1
KWKC	Abilene, Tex.	1/0.25	U1
KAND	Corsicana, Tex.	1/0.25	U1
KLBK	Lubbock, Tex.	1/0.25	U1
KRBA	Lufkin, Tex.	1/0.25	U1
KPDN	Pampa, Tex.	1/0.25	U1
WTWN	St. Johnsbury, Vt.	1/0.25	U1
WKEY	Covington, Va.	1/0.25	U1
WHAP	Hopewell, Va.	1/0.25	U1
WJMA	Orange, Va.	1/0.25	U1
KSMK	Kennewick, Wash.	1/0.25	U1
KAPA	Raymond, Wash.	1/0.25	SH1
WHAR	Clarksburg, W. Va.	1/0.25	U1
WEPM	Martinsburg, W. Va.	1/0.25	U1
WOVE	Welch, W. Va.	1/0.25	U1
WLDY	Ladysmith, Wis.	1/0.25	U1
WRIT	Milwaukee, Wis.	1/0.25	U1
KWOR	Worland, Wyo.	1/0.25	U1
*	Wetaskiwin, Alta.	1/0.25	U1
CKCR	Revelstoke, B.C.	1/0.25	U1
CFGB	Goose Bay, Lab.	1	U1
CFYK	Yellow Knife, N.W.T.	1	U1
CKOX	Woodstock, Ont.	1/0.25	U5
*	Lac Megantic, Que.	1/0.25	U5
*	Ste. Anne des Monte	1/0.25	U1
CFSL	Weyburn, Sask.	1/0.25	U1
ZBM2	Hamilton, Bermuda	1	U1
XEJK	Cd. Delicias, Chih.	1	U1
XEDKT	Guadalajara, Jal.	1/0.25	U1
XENV	Monterrey, N.L.	1/0.25	U1
XESL	San Luis Potosi	1	U1
XECW	Los Mochis, Sin.	1	U1
XEOM	Coatzacoalcos, Ver.	1/0.25	U1
XEGR	Coatepec, Ver.	1	U1
XEMA	Fresnillo, Zac.	1	U1
+ low power: 33 US/18 Can/9 Mex.			
1350			
WELB	Elba, Ala.	1	D1
WGAD	Gadsden, Ala.	5/1	U2
KLYD	Bakersfield, Calif.	1	D1
KCKC	San Bernardino, Calif.	5/0.5	U4
KSRO	Santa Rosa, Calif.	5	U2
KKAM	Pueblo, Colo.	5/1	U2
WNLK	Norwalk, Conn.	1/0.5	U2
WINY	Putnam, Conn.	1	D1
WEZY	Cocoa, Fla.	1	U2
WDCF	Dade City, Fla.	1	D1
WCAI	Ft. Myers, Fla.	1	D1
WRWH	Cleveland, Ga.	1	D1
WAVC	Warner Robins, Ga.	5	D1
KRLC	Lewiston, Ida.	5/1	U2
WXCL	Peoria, Ill.	1	U4
WIOU	Kokomo, Ind.	5/1	U4
KRNT	Des Moines, Iowa	5	U2
WSMB	New Orleans, La.	5	U2
WLOU	Louisville, Ky.	5	D1
KDIO	Ortonville, Minn.	1	D1
WCMP	Pine City, Minn.	1	D1
WKCU	Corinth, Miss.	1	D1
KCHR	Charleston, Mo.	1	D1
KBRX	O'Neil, Nebr.	1	D1
WLNH	Laconia, N.H.	5	D1
WHWH	Princeton, N.J.	5	U4
KABQ	Albuquerque, N.M.	5/0.5	U2
WCBA	Corning, N.Y.	1	D1
WHIP	Mooresville, N.C.	1	D1
WLLY	Wilson, N.C.	1	D1
WSLR	Akron, O.	5	U3
WCHI	Chillicothe, O.	1	D1
KTLO	Tahlequah, Okla.	1	D1
KRVC	Ashland, Ore.	1	D1
WWBR	Windber, Pa.	1	D1
WORK	York, Pa.	5/1	U2
WDAR	Darlington, S.C.	1	D1
WGSW	Greenwood, S.C.	1	D1
KTXJ	Jasper, Tex.	1	D1
KCOR	San Antonio, Tex.	5	U2
WBLT	Bedford, Va.	1	D1
WFLS	Fredericksburg, Va.	1	D1
WNVA	Norton, Va.	5	D1
WCVU	Portsmouth, Va.	5	U4
WPDR	Portage, Wis.	1	D1
CJDC	Dawson Creek, B.C.	1	U1
CKEN	Kentville, N.S.	1	U2
CKLB	Oshawa, Ont.	10/5	U4
CHOV	Pembroke, Ont.	1	U3
CJLM	Joliette, Que.	1	U3
†CFOM	Quebec, Que.	1	U3
XETB	Torreon, Coah.	5/0.5	U1
XEOK	Mexico, D.F.	1	U1
XETM	Naco, Son.	1	U1
XEJF	Tierra Blanca, Ver.	1	U1
+ low power: 11 US/2 Can/2 Mex.			
1360			
WWWB	Jasper, Ala.	1	D1
WLIQ	Mobile, Ala.	5	D3
WMFC	Montoeville, Ala.	1	D1
WELR	Roanoke, Ala.	1	D1
KRUX	Glendale, Ariz.	5/0.5	U2
KFFA	Helena, Ark.	1	U2
KFIV	Modesto, Calif.	5/1	U4
KRCK	Ridgecrest, Calif.	1	D1
KGB	San Diego, Calif.	5/1	U1
WDRC	Hartford, Conn.	5	U2
WOBS	Jacksonville, Fla.	5	D1
WKAT	Miami Bch., Fla.	5/1	U1
WINT	Winter Haven, Fla.	1	D1
WAZA	Bainbridge, Ga.	1	D1
WLAW	Lawrenceville, Ga.	1	D1
WLBK	DeKalb, Ill.	1	D1
WGFA	Watseka, Ill.	1	D3
KHAK	Cedar Rapids, Iowa	1	D3
KXGI	Ft. Madison, Iowa	1	D1
KSCJ	Sioux City, Iowa	5	U2
WFLW	Monticello, Ky.	1	D1

Call	Location	kW	Hrs.
KDXI	Mansfield, La.	1	D1
KNIR	New Iberia, La.	1	D1
WEBB	Baltimore, Md.	5	D3
WLYN	Lynn, Mass.	1	D1
WKMI	Kalamazoo, Mich.	5/1	U2
WFFF	Columbia, Miss.	1	D1
KLRS	Mtn. Grove, Mo.	1	D1
KICX	McCook, Nebr.	1	D1
WNNJ	Newton, N.J.	1	D1
WWBZ	Vineland, N.J.	1	U2
WKOP	Binghampton, N.Y.	5/0.5	U4
WMNS	Olean, N.Y.	1	D1
WCHL	Chapel Hill, N.C.	1	D1
KEYZ	Williston, N.D.	5	U2
WSAI	Cincinnati, O.	5	U2
KUIK	Hillsboro, Ore.	1	D1
WMCK	McKeesport, Pa.	5/1	U2
WPPA	Pottsville, Pa.	5/0.5	U4
WELP	Easley, S.C.	1	D1
WLCM	Lancaster, S.C.	1	D1
WBLC	Lenoir City, Tenn.	1	D1
WNAH	Nashville, Tenn.	1	D1
KACT	Andrews, Tex.	1	D1
KWBA	Baytown, Tex.	1	U4
KRYS	Corpus Christi, Tex.	1	U1
KXOL	Fort Worth, Tex.	5/1	U2
WBOB	Galax, Va.	1	D1
WHBG	Harisonburg, Va.	1	D1
KFDR	Grand Coulee, Wash.	1	D1
KMO	Tacoma, Wash.	5	U1
WHJC	Matewan, W. Va.	1	D1
WMOV	Ravenswood, W. Va.	1	D1
WBAY	Green Bay, Wis.	1	D1
WMNE	Menomonie, Wis.	1	D1
WISV	Viroqua, Wis.	1	D1
KVRS	Rock Springs, Wyo.	1/0.5	U2
CKBC	Bathurst, N.B.	10	U2
*	Bainbridge, Ont.	1	D1
XEY	Celaya, Gto.	1/0.25	U1
XEKF	Iguala, Gro.	1/0.25	U1
XESA	Culiacan, Sin.	1/0.5	U1
XEDO	San Andres Tuxtla	1	U1
+ low power: 10 US/1 Mex.			
1370			
WBYE	Calera, Ala.	1	D1
KREL	Corona, Calif.	1/0.5	U2
KEEN	San José, Calif.	5	U4
KGEN	Tulare, Calif.	1	D1
WWKE	Ocala, Fla.	5	D1
WCOA	Pensacola, Fla.	5	U2
WAXE	Vero Beach, Fla.	1	D1
WLOP	Jesup, Ga.	5	D1
WFDR	Manchester, Ga.	1	D1
WLOV	Washington, Ga.	1	D1
WTTS	Bloomington, Ind.	5/0.5	U4
WLTH	Gary, Ind.	1	D1
KDTH	Dubuque, Iowa	5/1	U2
KGNO	Dodge City, Kans.	5/1	U2
WGOH	Grayson, Ky.	5	D1
WTKY	Thomkinsville, Ky.	1	D1
KAPB	Marksville, La.	1	D1
WDEA	Ellsworth, Me.	5	U4
WKIK	Leonardtown, Md.	1	D1
WWAM	Cadillac, Mich.	5/1	U4
KSUM	Fairmount, Minn.	1	U4
WMGO	Canton, Miss.	1	D1
KWRT	Boonville, Mo.	1	D1
KCRV	Caruthersville, Mo.	1	D1
KXLF	Butte, Mont.	5	U1
WFEA	Manchester, N.H.	5	U3
WSAY	Rochester, N.Y.	5	U2
WLTC	Gastonia, N.C.	5	D1
WTAB	Tabor City, N.C.	5	D1
KFJM	Grand Forks, N.D.	1	D1
WSPD	Toledo, O.	5	U2
KFTR	Sweet Home, Ore.	1	D1
WOTR	Corry, Pa.	1/0.5	U2
WPAZ	Pottstown, Pa.	1	D1
WKMC	Roaring Spring, Pa.	1	D1
WIVV	Vieques, P.R.	1	U1
WDEF	Chattanooga, Tenn.	5	U2
WDXE	Lawrenceburg, Tenn.	1	D1
WRGS	Rogersville, Tenn.	1	D1
KOKE	Austin, Tex.	1	D1
KFRO	Longview, Tex.	1	U2
KPOS	Post, Tex.	1	D1
KSOP	Salt Lake City, Utah	1	D1
WBTN	Bennington, Vt.	1	D1
WHEE	Martinsville, Va.	5	D1
WJWS	South Hill, Va.	5	D1
KPOR	Quincy, Wash.	1	D1
WEIF	Moundsville, W. Va.	1	D1
WCCN	Neillsville, Wis.	5	D1
KVWO	Cheyenne, Wyo.	1	D1
CFLV	Valleyfield, Que.	1	U3
*	Saskatoon, Sask.	10	U2
XEA	Campeche, Cam.	1	U1
XEPA	Puebla, Pue.	5	U2
XEHF	Nogales, Son.	1	U1
XEGNK	Nuevo Laredo, Tems.	0.25	D1
+ low power: 15 US/2 Can/4 Mex.			
1375			
	St. Pierre, St. Pierre et Miquelon	4	U1
1380			
WRAB	Arab, Ala.	1	D1
WGYV	Greenville, Ala.	1	D1
WVSA	Vernon, Ala.	1	D1
KDXE	Little Rock, Ark.	1	D1
KBVM	Lancaster, Calif.	1	D3
KGMS	Sacramento, Calif.	1	U4
KTOM	Salinas, Calif.	5	U4
KFLJ	Walsenburg, Colo.	1	D1
†WOWW	Naugatuck, Conn.	5/0.5	U4
WAMS	Wilmington, Del.	5/1	U3
WQXQ	Ormond Beach, Fla.	1	D1
WLCY	St. Petersburg, Fla.	5	U2
WAOK	Atlanta, Ga.	5	U2
WSIZ	Ocilla, Ga.	5	D1
WBEL	So. Beloit, Ill.	5	U2
WKJG	Ft. Wayne, Ind.	5	U4
KCIM	Carroll, Iowa	1	U4
KUDL	Fairway, Kans.	5/0.5	U4
WWKY	Winchester, Ky.	1	D1
WKTJ	Farmington-W. Farmington, Me.	1	D1
WPLB	Greenville, Mich.	1/0.5	U2
WPHM	Port Huron, Mich.	5	U4
KLIZ	Brainerd, Minn.	5	U2
KAGE	Winona, Minn.	1	D1
KWK	St. Louis, Mo.	5	U2
WBBX	Portsmouth, N.H.	1	U2
WAWZ	Zarapheth, N.J.	5	ST4
WBNX	New York, N.Y.	5	ST3
WLOS	Asheville, N.C.	5/1	U2
WTOB	Winston-Salem, N.C.	5/1	U2
WPKO	Waverley, O.	1	D3
KSWO	Lawton, Okla.	1	U4
KMUS	Muskogee, Okla.	1/0.5	U2
KBCH	Lincoln City, Ore.	1	D1
KSRV	Ontario, Ore.	5/1	U2
WACB	Kittanning, Pa.	1	D1
WMLP	Milton, Pa.	1	D1
WAYZ	Waynesboro, Pa.	1	D1
WNRI	Woonsocket, R.I.	1	D1
WAGS	Bishopville, S.C.	1	D1
WGUS	No. Augusta, S.C.	1	D1
KOTA	Rapid City, S.D.	5	U2
WYSH	Clinton, Tenn.	1	D1
*	Franklin, Tenn.	1	D3
KJET	Beaumont, Tex.	1	D1
KBWD	Brownwood, Tex.	1/0.5	U1
KTSM	El Paso, Tex.	5/0.5	U1
KMUL	Muleshoe, Tex.	1	D1
KBOP	Pleasanton, Tex.	1	D1
WSYB	Rutland, Vt.	5/1	U2
WTVR	Richmond, Va.	5	U2
KRKO	Everett, Wash.	5	U2
KPEG	Spokane, Wash.	5	D1
WMTD	Hinton, W. Va.	1	D1
*	Oromcto, N.B.	10	U3
CKPC	Brantford, Ont.	10	U4
CKLC	Kingston, Ont.	10/5	U4
CFDA	Victoriaville, Que.	1	U2
XECO	Mexico, D.F.	5	U1
XEGW	Cd. Victoria, Tams.	1	U1
+ low power: 10 US/1 Can/2 Mex.			
1390			
WHMA	Anniston, Ala.	5/1	U2
KAMO	Rogers, Ark.	1	D1
KGER	Long Beach, Calif.	5	U2
KCEY	Turlock, Calif.	5	U4
KFML	Denver, Colo.	5	D1
WAVP	Avon Park, Fla.	1	D1
WUWU	Gainesville, Fla.	5	D1
WISK	Americus, Ga.	5	D1
WNUS	Chicago, Ill.	5	U4
WFIW	Fairfield, Ill.	1	D1
WJCD	Seymour, Ind.	1	D1
KCLN	Clinton, Iowa	1	D3
KCBC	Des Moines, Iowa	1	U3
WANY	Albany, Ky.	1	D1
WKIC	Hazard, Ky.	5	D1
*KRBL	Delhi, La.	1	D1
WEGP	Presque Isle, Me.	5	U2
WCAT	Orange, Mass.	1	D1
WPLM	Plymouth, Mass.	5	U4
WCER	Charlotte, Mich.	5	D3
WROA	Gulfport, Miss.	1	D1
WQIC	Meridian, Miss.	5	D1
KJPW	Waynesville, Mo.	1	D1
KENN	Farmington, N.M.	5/1	U2
KHOB	Hobbs, N.M.	5	D1
WEOK	Poughkeepsie, N.Y.	5/1	U4
WRIV	Riverhead, N.Y.	1	D1
WFBL	Syracuse, N.Y.	5	U2
WEED	Rocky Mount, N.C.	5/1	U2
WADA	Shelby, N.C.	1/0.5	U2
KLPM	Minot, N.D.	5/1	U1
WMPO	Pomeroy, O.	5	D1
WFMJ	Youngstown, O.	5	U2
KCRC	Enid, Okla.	1	U3
KSLM	Salem, Ore.	5/1	U1
WLAN	Lancaster, Pa.	5/1	U4
WRSC	State College, Pa.	1	D1
WISA	Isabella, P.R.	1/0.5	U1
WHPB	Belton, S.C.	1	D1
WCSC	Charleston, S.C.	5	U2
WTJS	Jackson, Tenn.	5/1	U2
KBLW	Logan, Utah	1/0.5	U2
WEAM	Arlington, Va.	5	U4
WWOD	Lynchburg, Va.	5/1	U2
KBBO	Yakima, Wash.	1/0.5	U2
WKLP	Keyser, W. Va.	1	D1
CKKC	Nelson, B.C.	1	U3
CHOO	Ajax, Ont.	10	U3
XETY	Tecoman, Col.	5/0.25	U1
XEOR	Reynosa, Tams.	1	U1
XETL	Tuxpan, Ver.	5	U1
+ low power: 12 US/1 Mex.			
1400			
WMSL	Decatur, Ala.	1/0.25	U1
WXAL	Demopolis, Ala.	1/0.25	U1
WFPA	Fort Payne, Ala.	1/0.25	U1
WJLD	Homewood, Ala.	1/0.25	U1
WJHO	Opelika, Ala.	1/0.25	U1
KXIV	Phoenix, Ariz.	1/0.25	U1
KELD	El Dorado, Ark.	1/0.25	U1
KCLA	Pine Bluff, Ark.	1/0.25	U1
KWYN	Wynne, Ark.	1/0.25	U1
KPAT	Berkeley, Calif.	1/0.25	U1
KTRT	Truckee, Calif.	1/0.25	U1
KUKI	Ukiah, Calif.	1/0.25	U1
KONG	Visalia, Calif.	1/0.25	U1
KRLN	Canon City, Colo.	1/0.25	SH1
KFTM	Fort Morgan, Colo.	1/0.25	U1
KBZZ	La Junta, Colo.	1/0.25	U1
WSTC	Stamford, Conn.	1/0.25	U1
WILI	Willimantic, Conn.	1/0.25	U1
WFTL	Ft. Lauderdale, Fla.	1/0.25	U5
WIRA	Fort Pierce, Fla.	1/0.25	U1
WNUE	Ft. Walton Beach, Fla.	1/0.25	U1
WRHC	Jacksonville, Fla.	1/0.25	U1
WPRY	Perry, Fla.	1/0.25	U1
WTRR	Sanford, Fla.	1/0.25	U1
WCQS	Alma, Ga.	1/0.25	SH1
WSGC	Elberton, Ga.	1/0.25	U1
WNEX	Macon, Ga.	1/0.25	U1
WMGA	Moultrie, Ga.	1/0.25	U1
WCOH	Newnan, Ga.	1/0.25	U1
WSGA	Savannah, Ga.	1/0.25	U1
KART	Jerome, Ida.	1/0.25	SH1
KRPL	Moscow, Ida.	1/0.25	U1
KIGO	St. Anthony, Ida.	1/0.25	U1
KSPT	Sandpoint, Ida.	1/0.25	U1
WDWS	Champaign, Ill.	1/0.25	U1
WGIL	Galesburg, Ill.	1/0.25	U1
WROZ	Evansville, Ind.	1/0.25	U1
WBAT	Marion, Ind.	1/0.25	U1
KVFD	Fort Dodge, Iowa	1/0.25	U1
KVOE	Emporia, Kans.	1/0.25	U1
KAYS	Hays, Kans.	1/0.25	U1
WIEL	Elizabethtown, Ky.	1/0.25	U1
WFTG	London, Ky.	1/0.25	SH1
WFPR	Hammond, La.	1/0.25	U1
KAOK	Lake Charles, La.	1/0.25	U1
WRDO	Augusta, Me.	1/0.25	U1
WIDE	Biddeford, Me.	1/0.25	U1
WMCS	Machias, Me.	1/0.25	U1
WWIN	Baltimore, Md.	1/0.25	U1
WALE	Fall River, Mass.	1/0.25	U1
WLLH	Lawrence, Mass.	1/0.25	U1
WLLH	Lowell, Mass.	1/0.25	U1
WHMP	Northampton, Mass.	1/0.25	U1
WKFR	Battle Creek, Mich.	1/0.25	U1
WJLB	Detroit, Mich.	1/0.25	U1
WGON	Munising, Mich.	1/0.25	U1
WSAM	Saginaw, Mich.	1/0.25	U1
WSJM	St. Joseph, Mich.	1/0.25	U1
WTCM	Traverse City, Mich.	1/0.25	U1
KEYL	Long Prairie, Minn.	1/0.25	U1
KMHL	Marshall, Minn.	1/0.25	U1
WMIN	St. Paul, Minn.	1/0.25	U1
WHLB	Virginia, Minn.	1/0.25	U1
WBIP	Booneville, Miss.	1/0.25	U1
WNAG	Grenada, Miss.	1/0.25	U1
WFOR	Hattiesburg, Miss.	1/0.25	U1
WJQS	Jackson, Miss.	1/0.25	U1
KFRU	Columbia, Mo.	1/0.25	U1
KJCF	Festus, Mo.	1/0.25	U1
KSIM	Sikeston, Mo.	1/0.25	U1
KTTS	Springfield, Mo.	1/0.25	U1
KARR	Great Falls, Mont.	1/0.25	U1
KBRB	Ainsworth, Nebr.	1/0.25	U1
KCOW	Alliance, Nebr.	1/0.25	U1
KLIN	Lincoln, Nebr.	1/0.25	U1

Call	Location	kW	Hrs.
KWNA	Winnemucca, Nev.	1/0.25	SH1
WTSL	Hanover, N.H.	1/0.25	U1
WONO	Pleasantville, N.J.	1/0.25	U1
KTRC	Santa Fe, N.M.	1/0.25	U1
KTNM	Tucumcari, N.M.	1/0.25	U1
WABY	Albany, N.Y.	1/0.25	U1
WYSL	Buffalo, N.Y.	1/0.25	U1
WSLB	Ogdensburg, N.Y.	1/0.25	U1
WGBG	Greensboro, N.C.	1/0.25	U1
WSHB	Raeford, N.C.	1/0.25	U1
WSIC	Statesville, N.C.	1/0.25	U1
WLSE	Wallace, N.C.	1/0.25	U1
WHCC	Waynesville, N.C.	1/0.25	U1
WSMY	Weldon, N.C.	1/0.25	U1
KEYJ	Jamestown, N.D.	1/0.25	U1
WHAN	Mansfield, O.	1/0.25	U1
WPAY	Portsmouth, O.	1/0.25	U1
KWON	Bartlesville, Okla.	1/0.25	U1
KNND	Cottage Grove, Ore.	1/0.25	SH1
KJDY	John Day, Ore.	1/0.25	SH1
WEST	Easton, Pa.	1/0.25	U1
WJET	Erie, Pa.	1/0.25	U1
WFEC	Harrisburg, Pa.	1/0.25	U1
WKBI	St. Marys, Pa.	1/0.25	U1
WRAK	Williamsport, Pa.	1/0.25	U1
WCOS	Columbia, S.C.	1/0.25	U1
WGTN	Georgetown, S.C.	1/0.25	U1
WHCQ	Spartanburg, S.C.	1/0.25	U1
KBJM	Lemmon, S.D.	1/0.25	U1
WJZM	Clarksville, Tenn.	1/0.25	U1
WHUB	Cookeville, Tenn.	1/0.25	U1
WLSB	Copper Hill, Tenn.	1/0.25	U1
WKPT	Kingsport, Tenn.	1/0.25	U1
WGAP	Mayville, Tenn.	1/0.25	U1
WHAL	Shelbyville, Tenn.	1/0.25	U1
KRUN	Ballinger, Tex.	1/0.25	SH1
KBYG	Big Spring, Tex.	1/0.25	U1
KUNO	Corpius Christi, Tex.	1/0.25	U1
KGVL	Greenville, Tex.	1/0.25	U1
KEBE	Jacksonville, Tex.	1/0.25	U1
KIUN	Pecos, Tex.	1/0.25	U1
KVOP	Plainview, Tex.	1/0.25	U1
KDWT	Stamford, Tex.	1/0.25	U1
KTEM	Temple, Tex.	1/0.25	U1
WDOT	Burlington, Vt.	1/0.25	U1
WHHV	Hillsville, Va.	1/0.25	SH1
WHIH	Portsmouth, Va.	1/0.25	U1
WHLF	So. Boston, Va.	1/0.25	U1
WINC	Winchester, Va.	1/0.25	U1
KEDO	Longview, Wash.	1/0.25	U1
KTNT	Tacoma, Wash.	1/0.25	U1
WBOY	Clarksburg, W. Va.	1/0.25	U1
WRON	Ronceverte, W. Va.	1/0.25	U1
WVRC	Spencer, W. Va.	1/0.25	U1
WKWK	Wheelingt, W. Va.	1/0.25	U1
WRTH	Williamson, W. Va.	1/0.25	U1
WATW	Ashland, Wis.	1/0.25	U1
WBIZ	Eau Claire, Wis.	1/0.25	U1
WDUZ	Green Bay, Wis.	1/0.25	U1
WRJN	Racine, Wis.	1/0.25	U1
WRDB	Reedsburg, Wis.	1/0.25	U1
WRIG	Wausau, Wis.	1/0.25	U1
KATI	Casper, Wyo.	1/0.25	U1
KODI	Cody, Wyo.	1/0.25	U1
CJFP	Riviere du Loup, Que.	10/0.25	U1
XEDE	Saltillo, Coah.	1/0.25	U1
CKSW	Swift Current, Sask.	1/0.25	U1
XEVV	Tuxtla Gutierrez	1	U1
XEGD	Parral, Chih.	1	U1
XEKJ	Acapulco, Gro.	1/0.5	U1
XEI	Morelia, Mich.	1/0.25	U1
XELH	Acaponeta, Nay.	1	U1
XEPS	Empalme, Son.	1	U1
XEPB	Hermosillo, Son.	1	U1
XEAB	Santa Ana, Son.	1	U1
XETO	Tampico, Tams.	1	U1
+ low power: 33 US/10 Can/3 Mex.			
1410			
WUNI	Mobile, Ala.	5	U2
*	Prattville, Ala.	5/1	U
KTCS	Fort Smith, Ark.	1	D1
KERN	Bakersfield, Calif.	1	U1
KMYC	Marysville, Calif.	5/1	U4
KCAL	Redlands, Calif.	5/0.5	U2
KCOL	Ft. Collins, Colo.	1	U2
WPOP	Hartford, Conn.	5	U4
WDOV	Dover, Del.	5	U2
WMYR	Ft. Myers, Fla.	5/0.5	U2
WZST	Leesburg, Fla.	5	D1
WONS	Tallahassee, Fla.	5	D1
WSNE	Cumming, Ga.	1	D3
WGRI	Griffin, Ga.	1	D1
WDAX	McRae, Ga.	1	D1
WLAQ	Rome, Ga.	1	U2
WRMN	Elgin, Ill.	1	D1
WTIM	Taylorville, Ill.	1	D3
WAZY	Lafayette, Ind.	1	D3
KLEM	LeMars, Iowa	1	D1
KCLO	Leavenworth, Kans.	5	D3
KWBB	**Wichita, Kans.**	**5/1**	**U4**
WLBJ	Bowling Green, Ky.	5/1	U2
WHLN	Harlan, Ky.	5	D1
KDBS	Alexandria, La.	1	D1
WHAG	Halfway, Md.	1	D3
WOKW	Brockton, Mass.	1	D3
WGRD	Grand Rapids, Mich.	1	D1
†WIOS	Tawas Cy., Mich.	1	D1
KRWB	Roseau, Minn.	1	U2
WDSK	Cleveland, Miss.	1	D1
KNOP	North Platte, Nebr.	1/0.5	U2
WDOE	Dunkirk, N.Y.	1/0.5	U2
WELM	Elmira, N.Y.	1/0.5	U2
WBZA	Glens Falls, N.Y.	1	D1
WOTT	Watertown, N.Y.	5	D1
WEGO	Concord, N.C.	1	D1
WSRC	Durham, N.C.	1	D1
WING	Dayton, O.	5	U2
KPAM	Portland, Ore.	5	D1
WLSH	Lansford, Pa.	5	D3
KOV	Pittsburgh, Pa.	5	U4
WPCC	Clinton, S.C.	1	D1
WYMB	Manning, S.C.	1	D1
WCMT	Martin, Tenn.	1	D1
KBUD	Athens, Tex.	1	D1
KRIG	Odessa, Tex.	1	U2
WIKI	Chester, Va.	5	D1
WRIS	Roanoke, Va.	5	D1
WRDS	So. Charleston, W. Va.	1	D1
WKBH	LaCrosse, Wis.	5	U2
KWYO	Sheridan, Wyo.	1/0.5	U1
CFUN	Vancouver, B.C.	10	U2
CKSL	London, Ont.	10	U4
CHLP	Montreal, Que.	10	U3
XEBS	Mexico, D.F.	5/1	U1
XEKB	Guadalajara, Jal.	5/0.25	U1
XECF	Los Mochis, Sin.	1/0.5	U1
XETAB	Villa Hermosa, Sin.	1/0.5	U1
XEAS	Nuevo Laredo, Tams.	1/0.25	U1
+ low power: 14 US.			
1420			
WACT	Tuscaloosa, Ala.	5	D1
KHFH	Sierra Vista, Ariz.	1/0.5	U2
KXOW	Hot Springs, Ark.	5	D1
KPOC	Pocahontas, Ark.	1	D1
*KJST	Joshua Tree, Calif.	1	D1
KSTN	Stockton, Calif.	5/1	U4
WBRD	Bradenton, Fla.	1	D3
WDBF	Delray Beach, Fla.	5/0.5	U4
WETH	St. Augustine, Fla.	1	D1
WAVO	Avondale Estates, Ga.	1	D3
WRBL	Columbus, Ga.	5	U2
WPEH	Louisville, Ga.	1	D1
WLET	Toccoa, Ga.	5	D1
WIMS	Michigan City, Ind.	5/0.5	U4
WOC	Davenport, Iowa	5	U4
KJCK	Ulysses, Kans.	1/0.5	U4
WTCR	Ashland, Ky.	5	D1
WHBN	Harrodsburg, Ky.	5/1	D1
WVJS	Owensboro, Ky.	5/1	U4
KPEL	Lafayette, La.	1/0.5	U2
WBSM	New Bedford, Mass.	5/1	U3
WVEC	Pittsfield, Mass.	1	U2
WKPR	Kalamazoo, Mich.	1	D3
KTOE	Mankato, Minn.	5	U2
WSUH	Oxford, Miss.	1	D1
WQBC	Vicksburg, Miss.	1/0.5	U1
WIGG	Wiggins, Miss.	1	D1
KOOO	Omaha, Nebr.	1	D3
KSYX	Santa Rosa, N.M.	1	D1
WALY	Herkimer, N.Y.	1	D1
WLNA	Peekshill, N.Y.	1	D1
WVOT	Wilson, N.C.	1/0.5	U2
WHK	Cleveland, O.	5	U2
KTJS	Hobart, Okla.	1	D1
KYNG	Coos Bay, Ore.	1	D1
WCOJ	Coatesville, Pa.	5	U2
WCED	DuBois, Pa.	5/0.5	U2
WEUC	Ponce, P.R.	1	U1
WCRE	Cheraw, S.C.	1	D1
KABR	Aberdeen, S.D.	1	D1
WEMB	Erwin, Tenn.	5	D1
WKSR	Pulaski, Tenn.	1	U2
KTRE	Lufking, Tex.	1	U2
KGNB	New Braunfels, Tex.	1	D1
KPEP	San Angelo, Tex.	1	D1
WWSR	St. Albans, Vt.	1	D1
WDDY	Gloucester, Va.	1	D1
WKCW	Warrenton, Va.	5	D1
KITI	Chehalis, Wash.	1	D1
KUJ	Walla Walla, Wash.	5	U2
CKPT	Peterborough, Ont.	5	U4
CJMT	Chicoutimi, Que.	1	U3
CJVR	Melfort, Sask.	10	U2
	Sondre Stromfjord, Greenland	0.25	U1
XEXX	Tijuana, B.C.	2	U1
XEF	Cd. Juarez, Chib.	5	U1
XEWE	Irapuato, Gto.	5	U1
XEH	Monterrey, N.L.	1	U1
XEWJ	Tehuacan, Pue	1	U1
XEEW	Matamoros, Tams.	1	U3
+ low power: 11 US/6 Mex.			
1425			
	Thule AFB, Greenland	1	U
1430			
WFHK	Pell City, Ala.	1	D1
WRMG	Red Bay, Ala.	1	D1
KHBM	Monticello, Ark.	1	D1
KAMP	El Centro, Calif.	1	D1
KARM	Fresno, Calif.	5	U3
KALI	San Gabriel, Calif.	5	U4
KGNU	Santa Clara, Calif.	1	U3
KOSI	Aurora, Colo.	5	U2
WLAK	Lakeland, Fla.	5/1	U1
WPCF	Panama City, Fla.	5	U4
WGFS	Covington, Ga.	1	D1
WRCD	Dalton, Ga.	1	D1
WWGS	Tifton, Ga.	5/1	U2
WEEF	Highland Park, Ill.	1	D3
WIRE	Indianapolis, Ind.	5	U2
KASI	Ames, Iowa	1	D1
WNAV	Annapolis, Md.	5/1	U2
WTTT	Amherst, Mass.	5	D3
WHIL	Medford, Mass.	5	D1
WION	Ionia, Mich.	5	D3
WBRB	Mt. Clemens, Mich.	5	D3
WLAU	Laurel, Miss.	5	D1
WILL	St. Louis, Mo.	5	U4
KRGI	Grand Island, Nebr.	5/1	U2
*KTYN	Minot, N.D.	5	D1
WNJR	Newark, N.J.	5	U2
KGFL	Roswell, N.M.	5/1	U2
WENE	Endicott, N.Y.	5	U2
WMNC	Morganton, N.C.	5/1	U2
WDJS	Mt. Olive, N.C.	1	D1
WRXO	Roxboro, N.C.	1	D1
WFOB	Fostoria, O.	1	U4
KELI	Tulsa, Okla.	5	U2
KGAY	Salem, Ore.	5	D1
WVAM	Altoona, Pa.	1	U2
WNEL	Caguas, P.R.	5/0.5	U1
WBLR	Batesburg, S.C.	1	D1
WATP	Marion, S.C.	1	D1
WBUG	Ridgeland, S.C.	1	D1
KBRK	Brookings, S.D.	1	D1
WJBE	Knoxville, Tenn.	1	D1
WENO	Madison, Tenn.	5/1	U2
WHER	Memphis, Tenn.	1	D1
KSTB	Breckenridge, Tex.	1	D1
KEES	Gladewater, Tex.	1	D1
KCOH	Houston, Tex.	1	D1
KLO	Ogden, Utah	5	U3
WIVE	Ashland, Va.	1	D1
*WKEX	Blacksburg, Va.	1	D1
WDIC	Clinchco, Va.	1	D1
KBRC	Mt. Vernon, Wash.	5/1	U2
WEIR	Weirton, W. Va.	1	U4
WBEV	Beaver Dam, Wis.	1	D1
*WRDN	Durand, Wis.	1	D3
CKFH	Toronto, Ont.	10	U4
XERAC	Campeche, Cam.	1	U1
XEIG	Iguala, Gro.	1	U1
XELY	Morelia, Mich.	1	U1
XEOX	Cd. Obregon, Son.	5	U1
XEWD	Cd. Miguel Aleman	2/0.25	U1
XELL	Veracruz, Ver.	1	U1
+ low power: 7 US/1 Mex.			
1440			
WHHY	Montgomery, Ala.	5/1	U2
KDOT	Scottsdale, Ariz.	5	D1
KHOG	Fayetteville, Ark.	1	D1
KOKY	Little Rock, Ark.	5	D1
KVON	Napa, Calif.	1/0.5	U4
KPRO	Riverside, Calif.	1	U1
KCOY	Santa Maria, Calif.	1	U2
*WLEH	Lehigh Acres, Fla.	5/1	U4
WABR	Winter Park, Fla.	5/1	U2
WWCC	Bremen, Ga.	1	D1
WGIG	Brunswick, Ga.	5/1	U2
WVMG	Cochran, Ga.	1	D1
WIOK	Normal, Ill.	1/0.5	U4
WPRS	Paris, Ill.	1	D1
WGEM	Quincy, Ill.	5/1	U4
WROK	Rockford, Ill.	5/0.5	U5
KEWI	Topeka, Kans.	5/1	U3
WCDS	Glasgow, Ky.	1	D1
WPDE	Paris, Ky.	1	D1
WEZJ	Williamsburg, Ky.	1	D1
KMLB	Monroe, La.	5/1	U2
WJAB	Westbrooke, Me.	5	D1
WAAB	Worcester, Mass.	5	U4
WBCM	Bay City, Mich.	1/0.5	U1
WDOW	Dowagiac, Mich.	1	D1
WCHB	Inkster, Mich.	1/0.5	U4
KQRS	Golden Valley, Minn.	5/0.5	U2
WHHT	Lucedale, Miss.	5	D1
WSEL	Pontotoc, Miss.	1	D1

Call	Location	kW	Hrs.
WMVB	Millville, N.J.	1	D3
WBAB	Babylon, N.Y.	1	D1
WJJL	Niagara Falls, N.Y.	1	D1
WSGO	Oswego, N.Y.	1	D1
WBLA	Elizabethtown, N.C.	1	D1
WBUY	Lexington, N.C.	5/1	U2
KILO	Grand Forks, N.D.	1/0.5	U1
WHHH	Warren, O.	5	U4
KMED	Medford, Ore.	5/1	U1
KODL	The Dalles, Ore.	1	U2
WCDL	Carbondale, Pa.	5	D1
WGCB	Red Lion, Pa.	1	D1
WOOK	Greenville, S.C.	5	U2
WZYX	Cowan, Tenn.	1	D1
KPUR	Amarillo, Tex.	5/1	U2
KEYS	Corpus Christi, Tex.	1/0.5	U2
KDNT	Denton, Tex.	5/0.5	U2
KETX	Livingston, Tex.	5	D1
WKLV	Blackstone, Va.	5	D1
WHRN	Herndon, Va.	1	D3
KDNC	Spokane, Wash.	5	D1
WHIS	Bluefield, W. Va.	5/0.5	U1
WAJR	Morgantown, W. Va.	5/0.5	U4
WNFL	Green Bays, Wis.	5/0.5	U4
*	Wetaskiwin, Alta.	1	U3
CFCP	Courtenay, B.C.	1	U2
CKPM	Ottawa, Ont.	10	U3
XELZ	Mexico, D.F.	10	U1
+ low power: 6 US/1 Can/1 Mex.			
1450			
WDNG	Anniston, Ala.	1/0.25	U1
WYAM	Bessemer, Ala.	1/0.25	U1
WDIG	Dotham, Ala.	1/0.25	U1
WFIX	Huntsville, Ala.	1/0.25	U1
WLAY	Muscle Shoals, Ala.	1/0.25	U1
KNOT	Prescott, Ariz.	1/0.25	U1
KVSL	Show Low, Ariz.	1/0.25	U1
KOLD	Tucson, Ariz.	1/0.25	U1
KJWH	Camden, Ark.	1/0.25	U1
KYOR	Blythe, Calif.	1/0.25	U1
KPAL	Palm Springs, Calif.	1/0.25	U1
KTIP	Porterville, Calif.	1/0.25	U1
KSOL	San Francisco, Calif.	1/0.25	U1
KVML	Sonora, Calif.	1/0.25	U1
KVEN	Ventura, Calif.	1/0.25	U5
KGIW	Alamosa, Colo.	1/0.25	U1
KYOU	Greeley, Colo.	1/0.25	U1
WNAB	Bridgeport, Conn.	1/0.25	U1
WILM	Wilmington, Del.	1/0.25	U1
WOL	Washington, D.C.	1/0.25	U1
WMFJ	Daytona Beach, Fla.	1/0.25	U1
WBSR	Pensacola, Fla.	1/0.25	U1
WSPB	Sarasota, Fla.	1/0.25	U1
WTAL	Tallahassee, Fla.	1/0.25	U1
WGPC	Albany, Ga.	1/0.25	U1
WBHF	Cartersville, Ga.	1/0.25	U1
WCON	Cornelia, Ga.	1/0.25	U1
WKEU	Griffin, Ga.	1/0.25	U1
WMVG	Milledgeville, Ga.	1/0.25	U1
WBYG	Savannah, Ga.	1/0.25	U1
WVLD	Valdosta, Ga.	1/0.25	U1
KVSI	Montpelier, Ida.	1/0.25	U1
KEEP	Twin Falls, Ida.	1/0.25	U1
WVON	Cicero, Ill.	1/0.25	U1
WCVS	Springfield, Ill.	1/0.25	U1
WLYV	Fort Wayne, Ind.	1/0.25	U1
WXVW	Jeffersonville, Ind.	1/0.25	U1
WASK	Lafayette, Ind.	1/0.25	U1
WAOV	Vincennes, Ind.	1/0.25	U1
KLWW	Cedar Rapids, Iowa	1/0.25	U1
KWBW	Hutchinson, Kans.	1/0.25	U1
WTCO	Campbellsville, Ky.	1/0.25	U1
WWXL	Manchester, Ky.	1/0.25	U1
WPAD	Paducah, Ky.	1/0.25	U1
WLKS	West Liberty, Ky.	1/0.25	U1
KSIG	Crowley, La.	1/0.25	U1
KNOC	Natchitoches, La.	1/0.25	U1
WLKN	Lincoln, Me.	1/0.25	U1
WRKD	Rockland, Me.	1/0.25	U1
WKTQ	South Paris, Me.	1/0.25	U1
WTBO	Cumberland, Md.	1/0.25	U1
WMAS	Springfield, Mass.	1/0.25	U1
WATZ	Alpena, Mich.	1/0.25	U1
WHTC	Holland, Mich.	1/0.25	U1
WMIQ	Iron Mountain, Mich.	1/0.25	U1
WIBM	Jackson, Mich.	1/0.25	U1
WKLA	Ludington, Mich.	1/0.25	U1
WNBY	Newberry, Mich.	1/0.25	U1
WHLS	Port Huron, Mich.	1/0.25	U1
KATE	Albert Lea, Minn.	1/0.25	U1
KBUN	Bemidji, Minn.	1/0.25	U1
KBMW	Breckenridge, Minn.	1/0.25	U1
WELY	Ely, Minn.	1/0.25	U1
KFAM	St. Cloud, Minn.	1/0.25	U1
WROX	Clarksdale, Miss.	1/0.25	U1
WCJU	Columbia, Miss.	1/0.25	U1
WJXN	Jackson, Miss.	1/0.25	U1
WOKK	Meridan, Miss.	1/0.25	U1
WNAT	Natchez, Miss.	1/0.25	U1
WROB	West Point, Miss.	1/0.25	U1
KFTW	Frederickton, Mo.	1/0.25	U1
WMBH	Joplin, Mo.	1/0.25	U1
KIRX	Kirkland, Mo.	1/0.25	U1
KOKO	Warrensburg, Mo.	1/0.25	U1
KWPM	West Plains, Mo.	1/0.25	U1
KXXL	Bozeman, Mont.	1/0.25	U1
KUDI	Great Falls, Mont.	1/0.25	U1
KRBN	Red Lodge, Mont.	1/0.25	U1
KVCK	Wolf Point, Mont.	1/0.25	U1
KWBE	Beatrice, Nebr.	1/0.25	U1
WKXL	Concord, N.H.	1/0.25	U1
WFPG	Atlantic City, N.J.	1/0.25	U1
WCTC	New Brunswick, N.J.	1/0.25	U1
KLMX	Clayton, N.M.	1/0.25	U1
KOBE	Las Cruces, N.M.	1/0.25	U1
KENM	Portales, N.M.	1/0.25	U1
WCLI	Corning, N.Y.	1/0.25	U1
WWSC	Glens Falls, N.Y.	1/0.25	U1
WHDL	Olean, N.Y.	1/0.25	U1
WKIP	Poughkeepsie, N.Y.	1/0.25	U5
WKAL	Rome, N.Y.	1/0.25	U1
WATA	Boone, N.C.	1/0.25	U1
WIZS	Henderson, N.C.	1/0.25	U1
WHKP	Hendersonville, N.C.	1/0.25	U1
WHIT	New Bern, N.C.	1/0.25	U1
WFBS	Spring Lake, N.C.	1/0.25	U1
WJER	Dover, O.	1/0.25	U1
WMOH	Hamilton, O.	1/0.25	U1
WLEC	Sandusky, O.	1/0.25	U1
KWHW	Altus, Okla.	1/0.25	U1
KGFF	Shawnee, Okla.	1/0.25	U1
KSIW	Woodward, Okla.	1/0.25	U1
KEED	Eugene, Ore.	1/0.25	U1
KFLW	Klamath Falls, Ore.	1/0.25	U1
KLBM	LaGrande, Ore.	1/0.25	U1
WWGO	Erie, Pa.	1/0.25	U1
WFRA	Franklin, Pa.	1/0.25	U1
WDAD	Indiana, Pa.	1/0.25	U1
WPAM	Pottsville, Pa.	1/0.25	U1
WMPT	So. Williamsport, Pa.	1/0.25	U1
WMAJ	State College, Pa.	1/0.25	U1
WJPA	Washington, Pa.	1/0.25	U1
WCPR	Coame, P.R.	1/0.25	U1
WWRI	West Warwick, R.I.	1/0.25	U1
WQSN	Charleston, S.C.	1/0.25	U1
WCRS	Greenwood, S.C.	1/0.25	U1
WHSC	Hartsville, S.C.	1/0.25	U1
WMYB	Myrtle Beach, S.C.	1/0.25	U1
KBFS	Belle Fourche, S.D.	1/0.25	U1
KYNT	Yankton, S.D.	1/0.25	U1
WLAR	Athens, Tenn.	1/0.25	U1
WMOC	Chattanooga, Tenn.	1/0.25	U1
WDSG	Dyersburg, Tenn.	1/0.25	U1
WLAF	LaFohette, Tenn.	1/0.25	SH1
WGNS	Murfreesboro, Tenn.	1/0.25	U1
KAYC	Beaumont, Tex.	1/0.25	U1
KMBL	Junction, Tex.	1/0.25	U1
KCYL	Lampasas, Tex.	1/0.25	U1
KMHT	Marshall, Tex.	1/0.25	U1
KSNY	Snyder, Tex.	1/0.25	U1
KURA	Moab, Utah	1/0.25	U1
KEYY	Provo, Utah	1/0.25	U1
KDXU	St. George, Utah	1/0.25	U1
WSNO	Barre, Vt.	1/0.25	U1
WTSA	Brattleboro, Vt.	1/0.25	U1
WFTR	Front Royal, Va.	1/0.25	U1
WFNZ	Highland Springs	1/0.25	U1
WREL	Lexington, Va.	1/0.25	U1
WMVA	Martinsville, Va.	1/0.25	U1
WLPM	Suffolk, Va.	1/0.25	U1
KBKW	Aberdeen, Wash.	1/0.25	U1
KCLX	Colfax, Wash.	1/0.25	U1
KAYE	Puyallup, Wash.	1/0.25	U1
WPAR	Parkersburg, W. Va.	1/0.25	U1
KFIZ	Fond du Lac, Wis.	1/0.25	U1
WDLB	Marshfield, Wis.	1/0.25	U1
WRCO	Richland Centre,	1/0.25	U1
KVOW	Riverton, Wyo.	1/0.25	U5
CFJR	Brockville, Ont.	1/0.25	U5
CHUC	Port Hope, Ont.	1	U4
CJBM	Caucapscal, Que.	1/0.25	U1
CHEF	Granby, Que.	1/0.25	U1
XEJM	Monterrey, N.L.	1/0.25	U1
XENA	Queretaro, Qro.	1/0.25	U1
XEDJ	Magdalena, Son.	1	U1
XEVH	Valle Hermosa,	1/0.25	U1
XECM	Cd. Mante, Tams.	1	U1
XEPP	Orizaba, Ver.	1	U1
XEJD	Poza Rica, Ver.	1	U1
+ low power: 30 US/8 Can/9 Mex.			
1460			
WFMH	Cullman, Ala.	5/0.5	U2
WPNX	Phenix City, Ala.	5/1	U2
KTYM	Inglewood, Calif.	5	D3
KDON	Salinas, Calif.	5	U3
KVRE	Santa Rosa, Calif.	1	D3
KYSN	Colorado Springs,	1/0.5	U2
WBAR	Bartow, Fla.	1	D1
WZEP	DeFuniak Spgs., Fla.	1	D1
WMBR	Jacksonville, Fla.	5	U2
WDYX	Buford, Ga.	5	D1
WROY	Carmi, Ill.	1	D1
WIXN	Dixon, Ill.	1	D3
WKAM	Goshen, Ind.	1/0.5	U2
WOCH	North Vernon, Ind.	1	D1
KSO	Des Moines, Iowa	5	U2
KCRB	Chanute, Kans.	1	D1
WXOK	Baton Rouge, La.	5/1	U2
KBSF	Spring Hill, La.	1	D1
WEMD	Easton, Md.	1/0.5	U4
WBET	Brockton, Mass.	5/1	U2
WBRN	Big Rapids, Mich.	1	D1
WPON	Pontiac, Mich.	1/0.5	U2
KDWA	Hastings, Minn.	1	D1
*	Northfield, Minn.	5	D1
KDMA	Montevideo, Minn.	1	U2
WELZ	Belzoni, Miss.	1	D1
WCIS	Moss Point, Miss.	1	D3
KIRL	St. Charles, Mo.	5	D3
KRNY	Kearney, Nebr.	5	D1
KENO	Las Vegas, Nev.	5/1	U2
WJJZ	Mount Holley, N.J.	5	D3
WOKO	Albany, N.Y.	5	U2
WHEC	Rochester, N.Y.	5	U2
WAKS	Fuquay Spgs., N.C.	1	D1
WBNS	Columbus, O.	5/1	U2
WPVL	Painesville, O.	1	D3
KROW	Dallas, Ore.	5	D1
WCMB	Harrisburg, Pa.	5	U2
WDOG	Allendale, S.C.	1	D1
WBCU	Union, S.C.	1	U2
WJAK	Jackson, Tenn.	1	D1
WEEN	Lafayette, Tenn.	1	D1
KLLL	Lubbock, Tex.	1	D1
WACO	Waco, Tex.	1	U2
WPRW	Manassas, Va.	5	U4
WRAD	Radford, Va.	5/0.5	U2
KYAC	Kirkland, Wash.	5	D3
KIMA	Yakima, Wash.	5	U2
WBUC	Buckhannon, W. Va.	5	D1
WTMB	Tomah, Wis.	1	D1
CJOY	Guelph, Ont.	10/5	U4
CKRB	St. Georges de Beauce, Que.	10/5	U2
XEYC	Cd. Juarez, Chih.	1	U1
XEHE	Atotonilco el Alto, Jal.	1	U1
XELX	Zitacuaro, Mich.	10	U2
XEHX	Cd. Obregon, Son.	1/0.25	U1
XEJT	Tampico, Tam.	1	U1
+ low power: 13 US/1 Mex.			
1470			
WBLO	Evergreen, Ala.	1	D1
KUTY	Palmdale, Calif.	5	D1
KXOA	Sacramento, Calif.	5/1	U4
WMMW	Meriden, Conn.	1	D1
WCWR	Dunedin, Fla.	5	D1
WRBD	Pompano Beach, Fla.	5	D3
WAAG	Adel, Ga.	1	D1
WDOL	Athens, Ga.	1	D1
WCLA	Claxton, Ga.	1	D1
WRGA	Rome, Ga.	5	U2
WMPP	Chicago Heights, Ill.	1	D3
WMBD	Peoria, Ill.	5	U4
WHUT	Anderson, Ind.	1	D1
KTRI	Sioux City, Iowa	5	U4
KWVY	Waverly, Iowa	1	D3
KARE	Atchison, Kans.	1	U3
KLIB	Liberal, Kans.	1	D1
WSAC	Fort Knox, Ky.	1	D1
KTDL	Farmerville, La.	1	D1
KPLC	Lake Charles, La.	5/1	U2
WLAM	Lewiston, Me.	5	D3
WJDY	Salisbury, Md.	5	D3
WTTR	Westminster, Md.	1	D1
WSRO	Marlboro, Mass.	1	D3
WKMF	Flint, Mich.	5/1	U4
KANO	Anoka, Minn.	1	D1
WCHJ	Brookhaven, Miss.	1	D1
KTCB	Malden, Mo.	1	D1
WTKO	Ithaca, N.Y.	1	D1
WPDM	Potsdam, N.Y.	1	D1
WPGF	Burgaw, N.C.	1	D1
WBIG	Greensboro, N.C.	5	U2
WPNC	Plymouth, N.C.	1	D1
WTOE	Spruce Pine, N.C.	1	U4
WOHO	Toledo, O.	5	D1
KRAF	Reedsport, Ore.	5	U2
WSAN	Allentown, Pa.	1/0.5	U2
WFAR	Farrell, Pa.	5	D1
WQXL	Columbia, S.C.	1	D1
WINH	Georgetown, S.C.	1	D1
WEAG	Alcoa, Tenn.	5/1	U4
WVOL	Berry Hill, Tenn.	5/1	U2
KRBC	Abilene, Tex.	1	D1
WTZE	Tazewell, Va.	5/1	U1
KELA	Centralia, Wash.	5/1	U1
KSEM	Moses Lake, Wash.	5/1	U4

Call	Location	kW	Hrs.
WWHY	Huntingdon, W. Va.	5	D1
WBKV	West Bend, Wis.	1	D1
KTWO	Casper, Wyo.	5/1	U1
CFRW	Winnipeg, Man.	5	U3
CHOW	Wellend, Ont.	1/0.5	U4
CFOX	Pointe Claire, Que.	10/5	U4
XEBBC	Tijuana, B.C.	5	U1
XEDS	Colima, Col.	1	U1
XESM	Mexico, D.F.	10/5	U1
XEND	Durango, Dgo.	1	U1
XEYA	Irapuato, Gto.	1	D1
+ low power: 15 US/2 Mex.			
1480			
WARI	Abbeville, Ala.	1	D1
WBTS	Bridgeport, Ala.	1	D1
WLPH	Irondale, Ala.	5	D1
WABB	Mobile, Ala.	5	U2
KTHS	Berryville, Ark.	1	D1
KRED	Eureka, Calif.	5	U2
KYOS	Merced, Calif.	5	U2
KWIZ	Santa Ana, Calif.	5/1	U4
KSEE	Santa Maria, Calif.	1	D1
KPUB	Pueblo, Colo.	1	D3
WAPG	Arcadia, Fla.	1	D1
WVCF	Windermere, Fla.	1	D1
WYZE	Atlanta, Ga.	5	D1
WRDW	Augusta, Ga.	5	U2
WGSB	Geneva, Ill.	1/0.5	U4
WTHI	Terre Haute, Ind.	1	U3
WRSW	Warsaw, Ind.	1/0.5	U4
KBEA	Mission, Kans.	1/0.5	U4
KLEO	Wichita, Kans.	5/1	U4
WKOA	Hopkinsville, Ky.	1	D1
WNKY	Neon, Ky.	1	D1
WTLO	Somerset, Ky.	1	D1
KJOE	Shreveport, La.	1	D1
WSAR	Fall River, Mass.	5	U4
WAFT	Grand Rapids, Mich.	5	D1
WIOS	Tawas City, Mich.	1	D3
KAUS	Austin, Minn.	1	U4
KEHG	Fosston, Minn.	1	D1
KGCX	Sidney, Mont.	5	U3
KLMS	Lincoln, Nebr.	1	U4
KWEW	Hobbs, N.M.	5/1	U2
WLEA	Hornell, N.Y.	5	D1
WHOM	New York, N.Y.	5	U4
WADR	Remsen, N.Y.	5	D1
WWOK	Charlotte, N.C.	5	U4
WWKO	Fair Bluff, N.C.	1	D1
WMSJ	Sylva, N.C.	5	D1
*WYDK	Yadkinville, N.C.	1	D1
WHBC	Canton, O.	5	U2
WCIN	Cincinnati, O.	5/0.5	U4
WDAS	Philadelphia, Pa.	5/1	U4
WISL	Shamokin, Pa.	1	U2
WMDD	Fajardo, P.R.	5	U1
KSDR	Watertown, S.D.	1	D1
WMQM	Memphis, Tenn.	5	D1
WJLE	Smithville, Tenn.	1	D1
KBOX	Dallas, Tex.	5/0.5	U4
KLVL	Pasadena, Tex.	1/0.5	U2
KONI	Spanish Fork, Utah	1	D1
WCFR	Springfield, Vt.	1	D1
WBBL	Richmond, Va.	5	ST4
WLEE	Richmond, Va.	5	ST4
WBLU	Salem, Va.	5	D1
KOOD	Lakewood, Wash.	1	D3
KVAN	Vancouver, Wash.	1	D1
WISM	Madison, Wis.	5/1	U2
KRAE	Cheyenne, Wyo.	1	D1
CHRD	Drummondville, Que.	10	U4
XEHM	Cd. Delicias, Chih.	1	D1
XENS	Navajoa, Son.	1	U2
XEPR	Poza Rica, Ver.	5	U1
+ low power: 14 US/1 Can/2 Mex.			
1490			
WAJF	Decatur, Ala.	1/0.25	U1
WRLD	Lanette, Ala.	1/0.25	U1
WHBB	Selma, Ala.	1/0.25	U1
KYCA	Prescott, Ariz.	1/0.25	U1
KXAR	Hope, Ark.	1/0.25	SH1
KDRS	Paragould, Ark.	1/0.25	U1
KOTN	Pine Bluff, Ark.	1/0.25	U1
KXRJ	Russellville, Ari.	1/0.25	U1
KWAC	Bakersfield, Calif.	1/0.25	U1
KRKC	King City, Calif.	1/0.25	SH1
KTOB	Petaluma, Calif.	1/0.25	U1
KBLF	Red Bluff, Calif.	1/0.25	U1
KDB	Santa Barbara, Calif.	1/0.25	U1
KOWL	South Lake Tahoe, Calif.	1/0.25	U1
KSYC	Yreka, Calif.	1/0.25	U1
KBOL	Boulder, Colo.	1/0.25	U1
WJBS	DeLand, Fla.	1/0.25	U1
WSRA	Milton, Fla.	1/0.25	U1
WPXE	Starke, Fla.	1/0.25	U1
WTTB	Vero Beach, Fla.	1/0.25	U1
WMOG	Brunswick, Ga.	1/0.25	U1
WMJM	Cordele, Ga.	1/0.25	U1
WMRE	Monroe, Ga.	1/0.25	U1
WSNT	Sandersville, Ga.	1/0.25	U1
KCID	Caldwell, Ida.	1/0.25	U1
WDAN	Danville, Ill.	1/0.25	U1
WAMV	East St. Louis, Ill.	1/0.25	U1
WOPA	Oak Park, Ill.	1/0.25	U1
WZOE	Princeton, Ill.	1/0.25	U1
WKBV	Richmond, Ind.	1/0.25	U1
WNDU	South Bend, Ind.	1/0.25	U1
KBUR	Burlington, Iowa	1/0.25	U1
WDBQ	Dubuque, Iowa	1/0.25	U1
KRIB	Mason City, Iowa	1/0.25	U1
KKAN	Phillipsburg, Kans.	1/0.25	SH1
KTOP	Topeka, Kans.	1/0.25	U1
WFKY	Frankfort, Ky.	1/0.25	U1
WKAY	Glasgow, Ky.	1/0.25	U1
WOMI	Owensboro, Ky.	1/0.25	U1
WSIP	Paintsville, Ky.	1/0.25	U1
WIKC	Bogalusa, La.	1/0.25	U1
KEUN	Eunice, La.	1/0.25	U1
KJIN	Houma, La.	1/0.25	U1
KRUS	Ruston, La.	1/0.25	U1
WPOR	Portland, Me.	1/0.25	U1
WTVL	Waterville, Me.	1/0.25	U1
WARK	Hagerstown, Md.	1/0.25	U1
WHAV	Haverhill, Mass.	1/0.25	U1
WMRC	Milford, Mass.	1/0.25	U1
WTXL	W. Springfield, Mass.	1/0.25	U5
WABJ	Adrian, Mich.	1/0.25	U1
WTIQ	Manistique, Mich.	1/0.25	SH1
WMDN	Midland, Mich.	1/0.25	U1
WLRC	Whitehall, Mich.	1/0.25	U1
KXRA	Alexandria, Minn.	1/0.25	U1
KOZY	Grand Rapids, Minn.	1/0.25	U1
KLGR	Redwood Falls, Minn.	1/0.25	U1
WLOX	Biloxi, Miss.	1/0.25	U1
WCLD	Cleveland, Miss.	1/0.25	U1
WHOC	Philadelphia, Miss.	1/0.25	U1
WTUP	Tupelo, Miss.	1/0.25	U1
KTTR	Rolla, Mo.	1/0.25	U1
KDRO	Sedalia, Mo.	1/0.25	U1
KDBM	Dillon, Mont.	1/0.25	U1
KBON	Omaha, Nebr.	1/0.25	U1
WEMJ	Laconia, N.H.	1/0.25	U1
WLDB	Atlantic City, N.J.	1/0.25	U1
KRSN	Los Alamos, N.M.	1/0.25	U1
KRTN	Raton, N.M.	1/0.25	SH1
WCSS	Amsterdam, N.Y.	1/0.25	U1
WKNY	Kingston, N.Y.	1/0.25	U1
WICY	Malone, N.Y.	1/0.25	U1
WOLF	Syrakuse, N.Y.	1/0.25	U5
WSSB	Durham, N.C.	1/0.25	U1
WFLB	Fayetteville, N.C.	1/0.25	U1
WLOE	Leaksville, N.C.	1/0.25	U1
WRNB	New Bern, N.C.	1/0.25	U1
WRMT	Rocky Mount, N.C.	1/0.25	U1
WSTP	Salisbury, N.C.	1/0.25	U1
WSVM	Valdese, N.C.	1/0.25	U1
WHSL	Wilmington, N.C.	1/0.25	U1
KNDC	Hettinger, N.D.	1/0.25	SH1
KOVC	Valley City, N.D.	1/0.25	U1
WBEX	Chillicothe, O.	1/0.25	U1
WJMO	Cleveland Hts., O.	1/0.25	U1
WMOA	Marietta, O.	1/0.25	U1
WMRN	Marion, O.	1/0.25	U1
KBKR	Baker, Ore.	1/0.25	U1
KRNR	Roseburg, Ore.	1/0.25	U1
KBZY	Salem, Ore.	1/0.25	U1
WESB	Bradford, Pa.	1/0.25	U1
WAZL	Hazleton, Pa.	1/0.25	U1
WARD	Johnstown, Pa.	1/0.25	U1
WGAL	Lancaster, Pa.	1/0.25	U1
WBCB	Levittown, Pa.	1/0.25	U1
WMRF	Lewistown, Pa.	1/0.25	U1
WMGW	Meadville, Pa.	1/0.25	U1
WNBT	Wellsboro, Pa.	1/0.25	U1
WGCD	Chester, S.C.	1/0.25	U1
WMRB	Greenville, S.C.	1/0.25	U1
KORN	Mitchell, S.D.	1/0.25	U1
WOPI	Bristol, Tenn.	1/0.25	U1
WDXB	Chattanooga, Tenn.	1/0.25	U1
WROL	Knoxville, Tenn.	1/0.25	U1
WJJM	Lewisburg, Tenn.	1/0.25	U1
WDXL	Lexington, Tenn.	1/0.25	U1
KNOW	Austin, Tex.	1/0.25	U1
KBST	Big Spring, Tex.	1/0.25	U1
KSAM	Huntsville, Tex.	1/0.25	U1
KZZN	Littlefield, Tex.	1/0.25	U1
KPLT	Paris, Tex.	1/0.25	U1
KDOK	Tyler, Tex.	1/0.25	U1
KVWC	Vernon, Tex.	1/0.25	U1
KVOG	Ogden, Utah	1/0.25	U1
WKVT	Brattleboro, Vt.	1/0.25	U1
WFAD	Middlesbury, Vt.	1/0.25	U1
WIKE	Newport, Vt.	1/0.25	U1
WCVA	Culpeper, Va.	1/0.25	U1
WVEC	Hampton, Va.	1/0.25	U1
WAYB	Waynewboro, Va.	1/0.25	U1
KBRO	Bremerton, Wash.	1/0.25	U1
KENE	Toppenish, Wash.	1/0.25	U1
KTEL	Walla Walla, Wash.	1/0.25	U1
WGKV	Charleston, W. Va.	1/0.25	U1
WTCS	Fairmount, W. Va.	1/0.25	U1
WLOH	Princton, W. Va.	1/0.25	U1
WSGB	Sutton, W. Va.	1/0.25	U1
WGEZ	Beloit, Wis.	1/0.25	U1
WLCX	LaCrosse, Wis.	1/0.25	U1
WIGM	Medford, Wis.	1/0.25	U1
WOSH	Oshkosh, Wis.	1/0.25	U1
KGOS	Torrington, Wyo.	1/0.25	U1
CKAD	Middleton, N.S.	1/0.25	U1
CHYM	Kitchener, Ont.	10/5	U4
CKBM	Montmagny, Que.	1/0.25	U1
CJSN	Shaunavan, Sask.	1/0.25	U1
XEED	Ameca, Jal.	1/0.25	U1
XEGT	Zamora, Mich.	1/0.25	U1
XEXE	Queretaro, Qro.	1	U1
XEFF	Matehala, S.L.P.	1	U1
XEDR	Guaymas, Son.	1/0.25	U1
XEMS	Matamoros, Tams.	1	U1
XEVZ	Acayucan, Ver.	1	U1
+ low power: 32 US/8 Can/4 Mex.			
1500			
WVSM	Rainsville, Ala.	1	D1
KGMR	Jacksonville, Ark.	1	D1
KBBQ	Burbank, Calif.	10	U4
KXRX	San Jose, Calif.	10/5	U4
WFIF	Milford, Conn.	5	D3
WTOP	Washington, D.C.	50	U4
WSEM	Donalsonville, Ga.	1	D1
WDEN	Macon, Ga.	1	D1
WBRI	Indianapolis, Ind.	5	D3
WAKE	Valparaiso, Ind.	1	D3
KWRG	New Road, La.	1	D1
WVOC	Battle Creek, Mich.	1	D3
WJBK	Detroit, Mich.	50/5	U4
KSTP	St. Paul, Minn.	50	U2
KDFN	Doniphan, Mo.	1	D1
WBFN	Quitman, Miss.	1	D1
WKBX	Winston-Salem, N.C.	1	D3
KOSG	Pawhuska, Okla.	5	D3
WMNT	Manati, P.R.	1/0.25	U1
WEAC	Gaffney, S.C.	1	D1
WDEB	Jamestown, Tenn.	1	D1
CKAY	Duncan, B.C.	1	U3
*	St. Catherines, Ont.	1	D3
XERH	Mexico, D.F.	20/5	U2
+ low power: 14 US/1 Mex.			
1510			
KALF	Mesa, Aris.	10	D1
KSOM	Ontario, Calif.	1	U3
KTIM	San Rafael, Calif.	1	D1
KDKO	Littleton, Colo.	1	U3
WNLC	New London, Conn.	10/5	U4
WKAI	Macomb, Ill.	1	D1
KIFG	Iowa Falls, Iowa	1	D1
KANS	Larned, Kans.	1	D1
WMEX	Boston, Mass.	5	U3
WJCO	Jackson, Mich.	5	D3
WKPO	Prentiss, Miss.	1	D1
KCCV	Independence, Mo.	1	D1
WRAN	Dover, N.J.	1	U4
WPUT	Brewster, N.Y.	1	D3
WEAL	Greensboro, N.C.	1	D1
WLGN	Logan, Ohio	5	D1
WAHT	Annville-Cleona, Pa.	5	D3
WSJW	Woodruff, S.C.	1	D1
WLAC	Nashville, Tenn.	50	U2
KGA	Spokane, Wash.	50	U2
WAUK	Waukesha, Wis.	10	D3
CKOT	Tilsonburg, Ont.	1	D3
CJRS	Sherbrooke, Que.	10	U4
+ low power: 15 US/1 Can/1 Mex.			
1520			
WAOA	Opelika, Ala.	5	D3
KMFB	Mendocino, Calif.	1	D1
KACY	Port Hueneme, Calif.	10/1	U4
WTLN	Apopka, Fla.	5	D3
WGNP	Indian Rocks Beach, Fla.	1	U3
WIXX	Oakland Park, Fla.	1	D1
WDGL	Douglasville, Ga.	1	D1
WXPQ	Eatontown, Ga.	1	D1
WNMT	Garden City, Ga.	1	D1
WHOW	Clinton, Ill.	5	D1
WSVL	Shelbyville, Ind.	1/0.25	U4
KSIB	Creston, Iowa	1	D1
KXKW	Lafayette, La.	10/0.5	U2
WKJR	Muskegon Hts., Mich.	1	D1
KOLM	Rochester, Minn.	10	D1
KMPL	Sikeston, Mo.	5/0.5	U4
WSLT	Ocean City, N.J.	1	D3
WKBW	Buffalo, N.Y.	50	U3
WTHE	Mineola, N.Y.	10	D3
WDSL	Mocksville, N.C.	5	D1
WINW	Canton, O.	1	D3
WKNT	Kent, O.	1	D3
WTTO	Toledo, O.	1	U4
KOMA	Oklahoma Cy, Okla.	50	U2

Call	Location	kW	Hrs.
KYXI	Oregon City, Ore.	50/10	U4
WKMG	Newberry, S.C.	1	D1
WSLV	Ardmore, Tenn.	1	D1
WIDD	Elizabethton, Tenn.	1	D1
+ low power: 17 US.			
1530			
WAAO	Andalusia, Ala.	1	D1
WLCB	Moulton, Ala.	1	D1
KFBK	Sacramento, Calif.	50	U3
KRYT	Colorado Springs, Colo	1	D1
*WDJZ	Bridgeport, Conn.	10	D3
WENG	Englewood, Fla.	1	D1
WTTI	Dalton, Ga.	10	D3
KNBI	Norton, Kans.	1	D1
KWLA	Many, La.	1	D1
WPNO	Auburn, Me.	1	D1
WTHM	Lapeer, Mich.	5	D3
WRPM	Poplarville, Miss.	10	D1
KPCR	Bowling Green, Mo.	1	D1
KECK	Lincoln, Nebr.	5	D3
WCKY	Cincinnati, O.	50	U2
WHYP	North East, Pa.	1	D1
WUPR	Utuado, P.R.	1/0.25	U1
WASC	Spartanburg, S.C.	1	D1
WTNE	Trenton, Tenn.	1	D1
KGTN	Georgetown, Tex.	1	D1
KGBT	Harlingen, Tex.	50/10	U2
KCLR	Ralls, Tex.	5	D1
KCHY	Cheyenne, Wyo.	10/1	U4
XESD	Leon, Gto.	1	D1
XEUR	Texcoco, Mex.	5	U3
+ low power: 10 US/1 Can.			
1540			
*	Camden, Ala.	1	D1
WANL	Lineville, Ala.	1	D1
KASA	Phoenix, Ariz.	10	D3
KPOL	Los Angeles, Calif.	50/10	U4
WJGA	Jackson, Ga.	1	D1
WOGA	Sylvester, Ga.	1	D1
WSMI	Litchfield, Ill.	1	D1
KXEL	Waterloo, Iowa	50	U2
*KCTO	Columbia, La.	1	D1
WDON	Wheaton, Md.	1	D1
WLEF	Greenwood, Miss.	1	D1
KBXM	Kennett, Mo.	1	D1
WKXR	Exeter, N.H.	1	D1
WPTR	Albany, N.Y.	50	U3
WPAW	E. Syracuse, N.Y.	1	D1
WKYK	Burnsville, N.C.	1	D1
WRPL	Charlotte, N.C.	1	D1
WIFM	Elkin, N.C.	1	D1
WABQ	Cleveland, O.	1	D1
KZEL	Eugene, Ore.	1	D1
WRCP	Philadelphia, Pa.	50	D3
WPTS	Pittston, Pa.	1	D1
WPME	Punxsutawney, Pa.	5	D1
WADK	Newport, R.I.	1	D1
WKKR	Pickens, S.C.	1	D1
KBUY	Ft. Worth, Tex.	50/1	U4
KGBC	Galveston, Tex.	1/0.25	U2
KEDA	San Antonio, Tex.	1	D1
WRGM	Richmond, Va.	10	D3
KFKF	Bellevue, Wash.	1	U3
CHIN	Toronto, Ont.	50	D3
XENC	Celaya, Gto.	1/0.25	U1
+ low power: 13 US/1 Mex.			
1550			
WAAY	Huntsville, Ala.	5/0.5	U2
WMOO	Mobile, Ala.	50	D3
KUAT	Tucson, Ariz.	50	D1
KKHI	San Francisco, Calif.	10	U4
KQXI	Arvada, Colo.	10	D1
WEXT	West Hartford, Conn.	1	D1
WRIZ	Coral Gables, Fla.	10	D3
WYOU	Tampa, Fla.	10	D1
WTHB	Augusta, Ga.	5	D1
WYNX	Smyrna, Ga.	10	D1
WJIL	Jacksonville, Ill.	1	D3
KEDD	Dodge Cy., Kans.	1	D3
WIRV	Irvine, Ky.	1	D1
WLUX	Baton Rouge, La.	5	D1
KOKA	Shreveport, La.	10/0.5	U2
WSER	Elkton, Md.	1	D3
WNTN	Newton, Mass.	10	D1
WSHN	Fremont, Mich.	1	D1
WOKJ	Jackson, Miss.	50/10	U4
WSAO	Senatobia, Miss.	5	D1
KGMO	Cape Girardeau, Mo.	5	D3
KKJO	St. Joseph, Mo.	5	U2
*KOBY	Reno, Nev.	10	D3
WBVM	Utica, N.Y.	1	D1
WPXY	Greenville, N.C.	1	D1
WYNA	Raleigh, N.C.	1	D1
WTYN	Tryon, N.C.	1	D1
WFCM	Winston-Salem, N.C.	1	D1
KOWB	Fargo, N.D.	5	D1
WLOA	Braddock, Pa.	1	D1
WBSC	Bennettsville, S.C.	10/5	U2
WKYE	Bristol, Tenn.	1	D1
KCAN	Canyon, Tex.	1	D1
KRGO	Salt Lake Cy., Utah	10	D1
WKBA	Vinton, Va.	10	D3
WVAB	Virginia Bch., Va.	5	D1
KOQT	Bellingham, Wash.	1	D1
KGAR	Vancouver, Wash.	1	D1
WXVA	Charles Town, W.Va.	5	D1
WMIR	Lake Geneva, Wis.	1	D3
WMAD	Madison, Wis.	5	D3
*	River Falls, Wis.	1	D1
CBE	Windsor, Ont.	10	U3
+ low power: 32 US/2 Can.			
1560			
WAGC	Centre, Ala.	1	D1
KPMC	Bakersfield, Calif.	10	U3
WTAI	Eau Gallie, Fla.	5	D1
WYSE	Inverness, Fla.	1	U2
WCIK	Gordon, Ga.	5	D1
XEVIP	Mexico, D.F.	1/0.5	U1
XERX	Salamanca, Gto.	1/0.25	U1
WRIN	Renssalaer, Ind.	1	D1
KRCB	Council Bluffs, Iowa	1	D1
WDXR	Paducah, Ky.	5/1	U4
*	Crowley, La.	1	D3
WBGS	Slidell, La.	1	D1
WTPS	Portage, Mich.	1	D3
WMIC	Sandusky, Mich.	1	D3
KBEW	Blue Earth, Minn.	1	D1
KTUI	Sullivan, Mo.	1	D1
WQXR	New York, N.Y.	50	U4
*WBKC	Chardon, O.	1	D3
WTNS	Coshocton, O.	1	D1
WCNW	Fairfield, O.	5	D3
WTOD	Toledo, O.	5	D3
KWCO	Chickasha, Okla.	1/0.25	U2
WRSJ	Bayamon, P.R.	5/0.25	U1
WAGL	Lancaster, S.C.	10	D1
WWGM	Nashville, Tenn.	10	D3
KEGG	Dangerfield, Tex.	1	D3
KGHO	Hoquaim, Wash.	1	D1
WFSP	Kingwood, W.Va.	1	D1
+ low power: 5 US/1 Can.			
1570			
WCRL	Oneonta, Ala.	1	D1
WTQX	Selma, Ala.	5	D1
KCVR	Lodi, Calif.	5	D3
KACE	Riverside, Calif.	1	D3
WTWB	Auburndale, Fla.	5	D1
WFBF	Fernandina Bch, Fla.	1	D1
WOKC	Okeechobee, Fla.	1	D1
WMES	Ashburn, Ga.	1	D1
WGHC	Clayton, Ga.	1	D1
WBAD	College Pk., Ga.	1	D1
WOKZ	Alton, Ill.	1	D1
WFRL	Freeport, Ill.	5	D3
WBEE	Harvey, Ill.	1	D3
WHEL	New Albany, Ind.	1	D1
KLLA	Leesville, La.	1	D1
KMAR	Winnsboro, La.	1	D1
WTOW	Towson, Md.	5	D3
WPEP	Taunton, Mass.	1	D1
WDEW	Westfield, Mass.	1	D1
WMRP	Flint, Mich.	1	D1
WFUR	Grand Rapids, Mich.	1	D1
KUXL	Golden Valley, Minn.	1	D1
WONA	Winona, Miss.	1	D1
WKOL	Amsterdam, N.Y.	1	D1
WFLR	Dundee, N.Y.	1	D1
WBUZ	Fredonia, N.Y.	1	D1
WHRF	Riverhead, N.Y.	1	D3
WNCA	Silver City, N.C.	1	D1
*	Boardman, Ohio	1	D3
WCLW	Mansfield, Ohio	1	D3
*	Warren, Ohio	1	D3
KOLS	Pryor, Okla.	1	D1
KWAY	Forest Grove, Ore.	1	D1
KOHU	Hermiston, Ore.	1	D1
WPGM	Danville, Pa.	1	D1
WBUX	Doylestown, Pa.	5	D3
WOTW	Latrobe, Pa.	1	D1
WLSC	Loris, S.C.	1	D1
WHLP	Centerville, Tenn.	1	D1
WCLE	Cleveland, Tenn.	1	D1
WTRB	Ripley, Tenn.	1	D1
WSWV	Pennington, Gap, Va.	1	D1
WYTI	Rocky Mount, Va.	1	D1
WAPL	Appleton, Wis.	1	D1
CHUB	Nanaimo, B.C.	10	U4
*	Thornhill, Man.	1	U3
CKLM	Montreal, Que.	50	U4
CFOR	Orillia, Ont.	10/1	U1
*	Burlington, Ont.	1	U4
XERF	Cd. Acuna, Coah.	250	U1
+ low power: 23 US.			
1580			
WEYY	Talladega, Ala.	1	D1
KTUF	Tempe, Ariz.	50	D1
KFDF	Van Buren, Ark.	1	D1
KWIP	Merced, Calif.	1	D1
KDAY	Santa Monica, Calif.	50	D3
KPIK	Colorado Springs, Colo	5	D1
WSBP	Chattahoochee, Fla.	1	D1
WSRF	Ft. Lauderdale, Fla.	10/5	U4
WVGT	Mt. Dora, Fla.	1	D1
WCCF	Punta Gorda, Fla.	1	D3
WCLS	Columbus, Ga.	1	U2
WNRI	Gainesville, Ga.	5	D1
WKIG	Glennville, Ga.	1	D1
WJVA	South Bend, Ind.	1	D1
WAXU	Georgetown, Ky.	10	D3
KLOU	Lake Charles, La.	1	U2
WPGC	Morningside, Md.	10	D3
WRBJ	St. John's, Mich.	1	D3
WAMY	Amory, Miss.	5	D1
*	Hattiesburg, Miss.	1	D1
WESY	Leland, Miss.	1	D1
WPMP	Pascagoula, Miss.	1	D1
KAMI	Cozad, Nebr.	1	D1
WNJH	Hammondton, N.J.	1	D1
KLOS	Albuquerque, N.M.	1	D1
WPAC	Patchogue, N.Y.	10	D3
WVKO	Columbus, O.	1	D3
KLTR	Blackwell, Okla.	1	D1
WEND	Ebensburg, Pa.	1	D1
WORG	Orangeburg, S.C.	1	D1
WBBR	Travelers Rest, S.C.	1	D1
WLIJ	Shelbyville, Tenn.	1	D1
WSKT	So. Knoxville, Tenn.	1	D3
KIRT	Mission, Tex.	1	D1
KWED	Seguin, Tex.	1	D1
KBGO	Waco, Tex.	1/0.5	U4
WILA	Danville, Va.	1	D1
WPUV	Pulaski, Va.	5	D1
WTTN	Watertown, Wis.	1	D1
CBJ	Chicoutimi, Que.	10	U4
XELI	Chilpancingo, Gro.	1	U1
XENQ	Tulancingo, Hgo.	1/0.5	U1
XEQL	Zamora, Mich.	1/0.1	U1
XEDM	Hermosillo, Son.	50	U1
+ low power: 30 US.			
1590			
WATM	Atmore, Ala.	5	D1
WVNA	Tuscumbia, Ala.	5/1	U2
KPBA	Pine Bluff, Ark.	1	D1
KLIV	San Jose, Calif.	5/0.5	U2
KUDU	Ventura, Calif.	1	U3
WBRY	Waterbury, Conn.	5	U3
WILZ	St. Petersburg Bch. Fla	1	D1
WELE	So. Daytona, Fla.	1	D1
WALG	Albany, Ga.	1	U2
WLFA	Lafayette, Ga.	5	D1
WNMP	Evanston, Ill.	1	D1
WAIK	Galesburg, Ill.	5	D3
WGEE	Indianapolis, Ind.	5	D3
KWBG	Boone, Iowa	1/0.5	U2
KVGB	Great Bend, Kans.	5	U2
WLBN	Lebanon, Ky.	1	D1
KEVL	White Castle, La.	1	D1
WETT	Ocean City, Md.	1/0.5	U4
WTVB	Coldwater, Mich.	5/1	U2
WSMA	Marine City, Mich.	1	D3
KRAD	E. Grand Forks, Minn	1	U2
WWUN	Jackson, Miss.	5/1	U2
KDEX	Dexter, Mo.	1	D1
KPRS	Kansas City, Mo.	1	D1
KCLU	Rolla, Mo.	1	D1
WSMN	Nashua, N.H.	5	U3
WNJZ	Port Chester, N.Y.	1	D3
WGGO	Salamanca, N.Y.	1	D1
WVOE	Chadbourne, N.C.	1	D1
WNCT	Greenville, N.C.	5/1	U2
WNOS	High Point, N.C.	1	D1
WAKR	Akron, Ohio	5	U2
*KZYX	Weatherford, Okla.	1	D1
KTIL	Tillamook, Ore.	5/1	U2
WZUM	Carnegie, Pa.	1	D3
WCBG	Chambersburg, Pa.	5/1	U2
WEEZ	Chester, Pa.	1	U2
WXRF	Guayama, P.R.	1	U1
WARV	Warwick, R.I.	1	D1
WABV	Abbeville, S.C.	1	D1
WACA	Camden, S.C.	1	D1
WJSO	Jonesboro, Tenn.	5	D1
WDBL	Springfield, Tenn.	1	D1
KGAS	Carthage, Tex.	1	D1
KINT	El Paso, Tex.	1	D1
KYOK	Houston, Tex.	5	U2
KCBD	Lubbock, Tex.	1	U4
KTOD	Sinton, Tex.	1/0.5	U4
WGOE	Richmond, Va.	5	D1
KSND	Seattle, Wash.	5	U2
WIXK	New Richmond, Wis.	5	D1
WSWW	Platteville, Wis.	1/0.5	U2
WQTC	Two Rivers, Wis.	1	D1
WAWA	West Allis, Wis.	1	D3
KCHY	Cheyenne, Wyo.	1	D1
*	Guelph, Ont.	10	U3
*	Kitchener-Waterloo	10	U4

Call	Location	kW	Hrs.
XEBZ	Meoqui, Chih.	1	D1
XEVOZ	Mexico, D.F.	10	U1
+ low power: 18 US/1 Can/1 Mex.			
1600			
WEUP	Huntsville, Ala.	5	D1
WAPX	Montgomery, Ala.	1	U2
KVIO	Cottonwood, Ariz.	1	D1
KXEW	Tucson, Ariz.	1	D3
KGST	Fresno, Calif.	5	D1
KWOW	Pomona, Calif.	5/0.5	U1
KUBA	Yuba City, Calif.	5/0.5	U2
KLAK	Lakewood, Colo.	5	U2
WKTX	Atlantic Bch., Fla.	1	D1
WHEW	Riviera Bch., Fla.	1	U2
WOKB	Winter Grdn., Fla.	5	D3
WNGA	Austell, Ga.	1	D1
WNGA	Nashville, Ga.	1	D1
WRBN	Warner Robins, Ga.	1	D1
WCGO	Chicago Hts., Ill.	1	D3
WARU	Peru, Ind.	1	D1
KLGA	Algona, Iowa	5	D3
KCRG	Cedar Rapids, Iowa	5	U2
KFNV	Ferriday, La.	1	D1
KLEB	Golden Meadow, La.	1	D1
KNCB	Vivian, La.	5	D1
WINX	Rockville, Md.	1/0.5	U2
WBOS	Brookline, Mass.	5	U3
WTYM	E. Longmeadow, Mass	5	D1
WAAM	Ann Arbor, Mich.	5/1	U4
WTRU	Muskegon, Mich.	5	U2
WKDL	Clarksdale, Miss.	1	D1
KATZ	St. Louis, Mo.	5/1	U2
WWRL	New York, N.Y.	5	U4
WMCR	Oneida, N.Y.	1	D1
WGIV	Charlotte, N.C.	1/0.5	U2
WIDU	Fayetteville, N.C.	1	D1
WHVL	Hendersonville, N.C.	1	D3
WFRC	Reidsville, N.C.	1	U2
WKSK	W. Jefferson, N.C.	1	D1
WAQI	Ashtabula, O.	1	D3
WBLY	Springfield, O.	1	D1
KUSH	Cushing, Okla.	1	D1
KASH	Eugene, Ore.	5/1	U2
KOHI	St. Helens, Ore.	1	D1
WLUZ	Bayamon, P.R.	1	U3
WFIS	Fountain Inn, S.C.	1	D1
WHBT	Harriman, Tenn.	5	D1
WKBJ	Milan, Tenn.	1	D1
KBBB	Borger, Tex.	5	D1
KBOR	Brownsville, Tex.	1	U4
KYAL	McKinney, Tex.	1	D1
KWEL	Midland, Tex.	1	D1
KOGT	Orange, Tex.	1	U2
KBBC	Centerville, Utah	1	D1
WCPK	Chesapeake, Va.	1	D1
WHLL	Wheeling, W.Va.	5	D1
WCWC	Ripon, Wis.	5	U4
CJRN	Niagra Falls, Ont.	10	U4
XEAE	Cd. Acuna, Coah.	1	U1
+ low power: US 20/1 Mex.			

CENTRAL AMERICA AND CARIBBEAN

ABBREVIATIONS: Cad = Cadena; Ci = Ciudad; Dif = Difusora, Difusão; Dom. Rep = Dominican Republic; Educ = Educadora; Emis = Emisora (Sp), Emmissora (Port); Ft = Fort; Isl = Islands; JBC = Jamaica Broadc. Corpo; Net = Network; nom = nominal frequency; Pres = Presidente, Presidencia; Prov = Provincial, Provincia; Pto = Puerto; R = Radio (Sp), Rádio (Port); rep = reported; Sta = Santa; Stgo = Santiago; Sto = Santo; Soc = Sociedad (Sp), Sociedade (Port); Transm = Transmisora; Univ = Universidad, Universidade; v = varying frequency; WIBS = Windward Islands Broadc. Service; () Name in brackets indicates precise transmitter site.

kHz	kW	Call	Country	Station/Location
530	0.25	TICAL	Costa Rica	R. Rumbo, Cartago (nom. 525)
535	0.5		Windward Isl	W.I.B.S., St. George's Grenada
540	5	HICM	Dom. Rep.	R. A.B.C, Sto. Domingo
	1	YNTT	Nicaragua	R. Corporación, Managua
	0.25	HOU23	Panama	R. Mía, Penomé
		HO . .		R. Tropicana, Colón
550	1.5	TISBJ	Costa Rica	R. Libertad, San José
	30	CMAN	Cuba	R. Rebelde, Pinar del Río
	1	HIAA	Dom. Rep.	R. Ritmos, Santiago
	0.5	YSFG	El Salvador	R. Variedades, Sonsonate
	10	TGRV	Guatemala	R. Cinco Sesenta, Guatemala
	5		Jamaica	R. Jamaica, Montego Bay
	1	HON31	Panama	R. Aeropuerto, Panamá
	5/1	WPAB	Puerto Rico	R. 550, Ponce
555	2	YNG	Nicaragua	R. Tic-Tac, Chinandega
560	1		Cuba	R. Rebelde, Las Mercedes (rel.)
	1	HIAA	Dom. Rep.	R. Ritmos, Santiago
	5	YSABC	El Salvador	R. Emisora Salvadoreña, San Miguel
	1	HRTX	Honduras	R. Satélite, Tegucigalpa
	5		Jamaica	Kingston (JBC)
	0.25	HOH2	Panama	Circuito R.P.C, Colón (rel. 610)
570	10	CMHI	Cuba	R. Rebelde, Santa Clara
	1	HIMS	Dom. Rep.	R. Cristal, Santo Domingo
	0.5	TGPA	Guatemala	R. Palmeras, Escuintla
	5	ZIZ	Leeward Isl.	R. ZIZ, St. Kitts
	5	YNRR	Nicaragua	R. Reforma, Managua
	0.25	WVDI	Trinidad	AFRTS, Port of Spain, (Chaguaramas)
575	5	TIJC	Costa Rica	Cadena Musical, San José
	0.25	HOO23	Panama	R. Capital, Panamá
580	0.5	CMJM	Cuba	R. Rebelde, Ciego de Avila
	10	YSEB	El Salvador	Cad. Radial Salvadoreña, S. Salvador
	0.2	TGVA	Guatemala	R. Monumental, Antigua
	1	TGY		R. Progreso, Guatemala
	5		Jamaica	R. Jamaica, Point Galina
	5	WKAQ	Puerto Rico	R. El Mundo, Santurce
590	25	CMW	Cuba	R. Rebelde, La Habana
	5	CM . .		CMKC Cad. Prov. de Oriente, Baracoa
	0.5	HIAB	Dom. Rep.	R. Isabel Torres, Pto. Plata
	1	HRT5	Honduras	R. Satélite, San Pedro Sula
	10	YNRD	Nicaragua	R. Quinientosnoventa 590, Managua
	1	HOH3	Panama	Circuito, R.P.C, Chitré (rel. 610)
600	150	CMKV	Cuba	R. Rebelde, San Germán
	1	CMHV		R. Rebelde, Trinidad
	0.5	HIRD	Dom. Rep.	R. Unica, Castillo
	5	YSNK	El Salvador	R. Exitos, San Salvador
	1	WAEL	Puerto Rico	R. 600, Mayagüez
606	1	TIAV	Costa Rica	Tic-Tac., San José (nom. 600)
610	1	TGGA	Guatemala	R. Señorial, Guatemala
	10	HRLP	Honduras	R. América, Tegucigalpa
	10	HOHM	Panama	Circuito R.P.C, Panamá
610	10	VPL6	Trinidad	R. Guardian, Port of Spain
615	10	YNM	Nicaragua	Radiodifusora Nacional, Managua
620	10	HISD	Dom. Rep.	R. TV Dominicana, Sto. Domingo
	5		Jamaica	Spur Tree (J.B.C.)
	5		Leeward Isl.	Antigua Broadc. Sce, St. Johns
625	50	TIRICA	Costa Rica	La Voz de la Victor, San José
630	60	CMHQ	Cuba	R. Liberación, Santiago (rep. on 650)
	2	CMKU		
	1	HIAF	Dom. Rep.	R. Monte Cristi, Monte Cristi
	10	YSLN	El Salvador	R. 630, San Salvador
	1	WKYN	Puerto Rico	Quality Broadc. Corp, Santurce
640	50	CMQ	Cuba	R. Liberación, La Habana
	20		Guadeloupe	O.R.T.F., Pointe-à-Pitre (Arnouville)
	20	TGW	Guatamala	La Voz de Guatemala, Guatemala
	1	HRMT	Honduras	R. Molino Rojo, San Pedro Sula
	1	HRVF		R. Exitos, Tegucigalpa
	1	YNX	Nicaragua	Estación Equis, Chichigalpa (rel. 750)
	0.25	HOK	Panama	R. Aeropuerto, Colón
	25		Leeward Isl.	R. Antilles, Montserrat
645	10	HOS22	Panama	R. Mía, Panama (nom 650)
650	1	TIBAS	Costa Rica	Monumental, San José
	5	HIAT	Dom. Rep.	R. Universal, Sto. Domingo
	1	YNWW	Nicaragua	R. Sport, Granada
655	10	YSS	El Salvador	R. Nacional de El Salvador, S. Salvador
660	1	CMGH	Cuba	R. Progreso, Santa Clara
	2	HIAM	Dom. Rep.	R. Quisqueyana, Santiago
	1	4VUE	Haiti	R. Lumière, Port-au-Prince
	1	HOH4	Panama	Circuito R.P.C, David (rel. 610)
670	150	CMKP	Cuba	R. Progreso, San Germán
	1	CMAF		R. Progreso, Pinar del Río
	10	TGRT	Guatemala	R. Fabulosa, Guatemala
	10	HRN	Honduras	La Voz de Honduras, Tegucigalpa
	1	HOLY	Panama	R. Hogar, Panamá
675	5	TIJC2	Costa Rica	Sonora Musical, San José
	15	YND	Nicaragua	Unión Radio, Managua
680	1	CMHN	Cuba	R. Progreso, Cienfuegos
	1	CMDB		R. Progreso, Santiago
	0.4	TGMQ	Guatemala	R. Retma, San Marcos
	0.5	HOF32	Panama	R. Centenario, Pto. Armuelles
	10	WAPA	Puerto Rico	Hearst R. Inc, San Juan
690	50	CMBC	Cuba	R. Progreso, La Habana
	5	HIAW	Dom. Rep.	R. Guarachita, Sto. Domingo
695	10	TGHR	Guatemala	R. Mundial, Guatemala (nom. 700)
	0.5		Windward Isl.	W.I.B.S, Roseau, Dominica
700	2	TIHB	Costa Rica	R. Reloj, San José

kHz	kW	Call	Country	Station/Location
700	1	CMJT	Cuba	R. Progreso, Ciego de Avila
	1	HIDC	Dom. Rep.	R. Mao, Mao
	5	YSQR	El Salvador	R. Morazán, Mejicanos
	1	HRRT	Honduras	R. Exitos, San Pedro Sula
	5		Jamaica	Montego Bay (J.B.C.)
	10	YNSC	Nicaragua	R. Centauro, Managua
	1	HOA	Panama	R. Panamericana, Panamá
705	0,5		Windward Isl.	W.I.B.S, Kingstown, St. Vincent
710	1	YSRS	El Salvador	Circuito YSR, Sonsonate
	1	TGXL	Guatamala	R. Tecun Uman, Quezaltenango
	1	HRHR	Honduras	La Voz de Occidente Sta. Rosa de Copán
	1/0.5	WKJB	Puerto Rico	R. WKJB, Mayagüez
715	1	HRTV	Honduras	R. Televisión, Tegucigalpa
720	30	CMGN	Cuba	R. Rebelde, Colón
	5	YSRA	El Salvador	Circuito YSR, Santa Ana
	1	YSRU		Circuito YSR, Usulután
	1	HRTV2	Honduras	R. Televisión, San Pedro Sula
	5		Jamaica	R. Jamaica, Kingston
	1	HOB50	Panama	R. República, Chitré (Los Santos)
725	1	TILX	Costa Rica	Columbia, San José
	3	HIAQ	Dom. Rep.	R. Norte, Santiago (v)
	1	YNS	Nicaragua	R. Titania, Chinandega
730	10	CMKJ	Cuba	R. Liberación, Holguín
	1	HIZ	Dom. Rep.	Emis. Nacionales, Sto. Domingo
	10	YSR	El Salvador	Circuito YSR, San Salvador
	10	TGN	Guatemala	R. Cultural, Guatemala
	0.5	4VIA	Haiti	R. Lumière, Artibonite
	0.25	HRQQ	Honduras	R. Musical, Comayagua
	1	HP5C	Panama	R. Miramar, Panamá
	20		Trinidad	R. Trinidad, Port of Spain
740	10	CMJL	Cuba	R. Liberación, Camagüey
	1	CMAQ		R. Liberación, Pinar del Río
	5	YSRM	El Salvador	Circuito YSR, San Miguel
	1	HRJS	Honduras	R. Metropolitana, San Pedro Sula
	10	WIAC	Puerto Rico	Bestov Broadc. Inc., San Juan
750	1	TIRA	Costa Rica	Radiolandia, San José
		HI..	Dom. Rep.	R. Rutas, La Romana
	10	YSKLA	El Salvador	R. Universal, Santa Ana
	1	HRDN	Honduras	R. Caribe, La Ceiba
	5		Jamaica	Point Galina (JBC)
	50	YNX	Nicaragua	Estación Equis, Managua
760	10	CMCD	Cuba	Reloj Nacional, La Habana
	1	CMJS		Reloj Nacional, Ciego de Avila
	0.5	HIMD	Dom. Rep.	R. Tamboril, Tamboril
	10	YSKL	El Salvador	R. Cadena YSKL, San Salvador
	10	TGHS	Guatemala	Super Radio, Guatemala
	1	4VI	Haiti	R. Lumière, Les Cayes (Torbeck)
	0.25	4VIE		R. Lumière, Jérémie
	5	HOXO	Panama	La Voz del Istmo, Panamá
	5	WORA	Puerto Rico	R. Americas Corp, Mayagüez
770	10	CMDC	Cuba	CMKC Cad. Prov. de Oriente, Holguin
	5	YSKLB	El Salvador	R. Universal, San Miguel
	0.5	TGBX	Guatemala	R. Fraternidad, Quezaltenango
	10	HRNQ	Honduras	R. Morazán, Tegucigalpa
	5		Jamaica	R. Jamaica, Mandeville
775	4.5	TIW	Costa Rica	R. City, San José
780	10		Barbados	R. Barbados, Black Rock
	10	ZBVI	British Virgin Isl.	R. Station ZBVI, Tortola
	1	CMJN	Cuba	R. Rebelde, Camagüey
	1	HIBO	Dom. Rep.	R. Constanza, Constanza
	0.05	AHD	Puerto Rico	AFCN, Ramey Air Force Base, Aguidilla
790	10	CMCH	Cuba	Cadena Habana, La Habana
	5	HIL	Dom. Rep.	La Voz del Trópico, Sto. Domingo (v)
	5	TGO	Guatemala	La Voz de las Américas, Guatemala
	1	HRVQ	Honduras	R. Satélite, Tegucigalpa
	5	ACA20	Canal Zone	Southern Command Net., Ft. Clayton
795	3.5	TIGPH2	Costa Rica	R. Centro, San José (nom. 800)
800	2	CMKC	Cuba	CMKC Cad. Prov. de Oriente, Santiago
	10	YSAX	El Salvador	La Voz Panamericana, San Salvador
	500	PJB	Neth. Antilles	Trans World Radio, Bonaire
	10	YNO	Nicaragua	R. Ivania, Managua
	1	HOL60	Panama	R. Villarreal, Serrano
810	1	CMJE	Cuba	R. Progreso, Camagüey
	1	YSFA	El Salvador	R. Lorenzana, San Vincente
	1	TGQ	Guatemala	R. Nacional de Quezaltenango, Quezaltenango
	1	YNX	Nicaragua	Estación Equis, Matagalpa (rel. 750)
	1	HOF33	Panama	Onda Popular, Bocas del Toro (rel. 965)
810	25	WKVM	Puerto Rico	American Colonial Broadc. Corp, San Juan
820	5	HIAZ	Dom. Rep.	R. Santiago, Santiago
	5	YSDR	El Salvador	R. Tropical, Santa Ana
	5	TGTO	Guatemala	R. Internacional, Guatemala
	1	HRXS	Honduras	R. Sula, San Pedro Sula
	1	HOL55	Panama	R. Reforma, Chitré
825	1.5	TIOS	Costa Rica	Titania, San José
	15	YNOL	Nicaragua	Ondas de Luz, Managua
830	10	CMCA	Cuba	R. Cordón de La Habana, La Habana
	4	YSPX	El Salvador	R. Pax, San Miguel
	2.5	4VEC	Haiti	R. Station 4VEH, Cap-Haitien
	20		Br. Honduras	R. Belize, Belize
	1	HRSP	Honduras	R. Moderna, Tegucigalpa (v)
	0.25	HOG	Panama	Your Community St., Panamá
840	5	CMHW	Cuba	R. Cien Dias, Sta. Clara
	5	YSF	El Salvador	R. Vanguardia, San Salvador
	1	YNMG	Nicaragua	R. Pinares, Ocotal
	1	HON32	Panama	Ecos de la Montaña, Chiriqui
	10		Windward Isl	R. Caribbean, Castries, St. Lucia
850	10	TIUCR	Costa Rica	R. Universitaria, San Pedro
	2	CMKC	Cuba	CMKC Cad. Prov. de Oriente, Santiago
	1	TGX	Guatemala	R. Ciro's, Guatemala
	1	HRVN	Honduras	R. Sonora, Danlí
	15	YNAV	Nicaragua	R. Continental, Managua
	1	HOA21	Panama	R. Ochocientos Cincuenta, Panamá
	0.5	WABA	Puerto Rico	R. WABA, Aguadilla
855	5	PJC2	Neth. Antilles	R. Curom, Willemstad, Curaçao
860	1	CMBL	Cuba	Presentando Música, La Habana
	1	CMJY		R. Cad. Agramonte, Ciego de Avila
	5	HISD	Dom. Rep.	R. TV Dominicana, Sto Domingo
	1	YSRC	El Salvador	R. Tecana, Santa Ana
	10	HRU	Honduras	R. Castro, Tegucigalpa
870	10	CMDN	Cuba	R. Rebelde, Guantánamo (v) (rep. on 875)
	1	HJBG	Dom. Rep.	Radiolandia, Santiago
	1	YSAR	El Salvador	R. Comercial, San Salvador
	1	TGSM	Guatemala	R. Nacional, San Marcos
	1	HOHO	Panama	R. Musical, Panamá
	5	WHOA	Puerto Rico	Continental Broadc. Corp, Hato Rey
875	1	TISRHB	Costa Rica	R. Popular, San José
	1	YNWI	Nicaragua	R. Mundial, León (rel. 930)
880	1	CMAG	Cuba	R. Musical Nacional, Consolación del Sur
	1	CMJB		R. Musical Nacional, Camagüey
	1	HIOR	Dom. Rep.	R. Santa Cruz, Mao
	0.5	YSCD	El Salvador	R. YSCD, Sto de Maria, Usulután
	10	TGJ	Guatemala	R. Nuevo Mundo, Guatemala
	0.15	4VAA	Haiti	R. Nationale, Port-au-Prince (v. 880-905)
	0.25	HOB51	Panama	R. Universal, Colón
885	0.25		Leeward Isl.	R. Montserrat, Plymouth
	10	YNKW	Nicaragua	R. Libertad, Managua
890	1	CMHD	Cuba	R. Musical Nacional, Sta Clara
	1	CMDZ		R. Musical Nacional, Santiago
	5/1	HIPJ	Dom. Rep.	R. Continental, Sto Domingo
	1	YSLA	El Salvador	R. Musical, Santa Ana
	1	HOR34	Panama	Ondas del Pacifico, David
900	6	TICS	Costa Rica	Atenea, San José
	1	CMJV	Cuba	R. Liberación, Ciego de Avila
		HRZV	Honduras	R. Fabulosa, San Pedro Sula
	5	YNWS	Nicaragua	Alma Nica, Managua
	0.5	HOHA	Panama	La Voz del Pueblo, Panamá
905	10	YSQJ	El Salvador	Radiópolis, San Salvador (nom. 910)
910	10	CMBF	Cuba	R. Musical Nacional, La Habana
	0.25	HIBA	Dom. Rep.	R. Reloj, Sto. Domingo (nom 920)
	10	HRVS	Honduras	R. Católica, Tegucigalpa
	5/0.5	WPRP	Puerto Rico	Voice of Puerto Rico, Ponce
920	1	CMHB	Cuba	R. Musical Nacional. Sancti Spiritus
	0.5	CMAS		R. Cadena Provincial, Pinar del Rio
	1	TGRS	Guatemala	R. Sur, Escuintla
	1	TGKL	Guatemala	R. Emperador, Guatemala
	10	PJA6	Neth. Antilles	R. Victoria, Oranjestad, Aruba (v)
	1	HOS56	Panama	R. Peninsula, Los Santos
925	1	TICM	Costa Rica	Musical Juvenil, San José
930	1	CMGX	Cuba	R. Musical Nacional, Matanzas

kHz	kW	Call	Country	Station/Location
930	1	CMKN	Cuba	R. Rebelde, Santiago
	2	HICK	Dom. Rep.	Ondas del Yaque, Santiago
	1	YSW	El Salvador	R. Santa Ana, Santa Ana
	0.25	4VJS	Haiti	R. Variété, Gonaïves
	1	HRZE	Honduras	R. Cortés, Puerto Cortés
	200		Leeward Isl.	R. Antilles, Montserrat (v)
	10	YNW	Nicaragua	R. Mundial, Managua
940	0.25	CMHE	Cuba	R. Doblevé, Fomento
	0.25	CMDJ		CMKC Cad. Prov. de Oriente, Guantánamo
	1	YSTG	El Salvador	R. Sonora, Cuscatancingo
	0.5	HOX	Panama	R. Tevedós, Panamá
	10	WIPR	Puerto Rico	Lá Emisora del Pueblo, San Juan
950	1	TIECO	Costa Rica	R. Eco, San José (Tibás)
	10	CMBF	Cuba	R. Musical Nacional, La Habana
	1	HIG	Dom. Rep.	R. Difusora HIG, Sto Domingo
	1	YSGH	El Salvador	R. Minuto, San Miguel
	5	TGAF	Guatemala	R. Indiana, Mazatenango
	1	HRYW	Honduras	R. Panamericana, Tegucigalpa
955	1	HOB33	Panama	R. Cultura, Concepción
960	1	CMBM	Cuba	Reloj Nacional, Isla de la Juventud
	1	HIF	Dom. Rep.	La Voz del Atlántico, Pto Plata (v)
	0.25	YSTW	El Salvador	R. Centro, Sonsonate
	0.3	4VCD	Haiti	R. Carillon, Port-au-Prince (v)
	1	HRBT	Honduras	R. Norte, San Pedro Sula
	1	HRAS		R. Columbia, Santa Bárbara
	1	HRCZ		La Voz de Atlántida, La Ceiba
	5	TGTL	Guatemala	La Voz del Hogar, Guatemala
965	5	YNLU	Nicaragua	R. Managua, Managua
	3	HOF	Panama	Onda Popular, Panamá
970	5	WIVI	American Virgin Isl.	R. American West Indies Inc. Christiansted, St. Croix
	10	TGAX	Guatemala	R. Continental, Guatemala
975	4	TIRS	Costa Rica	Atenea, San José
980	5	CMCK	Cuba	El Periódico del Aire, La Habana
	3	HISA	Dom. Rep.	R. Cibao, Santiago
	1	YSAN	El Salvador	La Voz de los Ausoles, Ahuachapán
	1	HRTL	Honduras	R. Tic-Tac, Tegucigalpa
	0.5	YNCR	Nicaragua	R. Mongalo, Rivas
990	1	CMHT	Cuba	R. Sancti Spiritus, S. Spiritus
	5	YSTA	El Salvador	R. Continental, Mejicanos
	1	TGAL	Guatemala	La Voz de la Perla de Oriente, Chiquimula
	1	HOR59	Panama	R. Impacto, Panamá
	1	WPRA	Puerto Rico	"R. Mayagüez", Mayagüez
995	0.2	4VCPS	Haiti	R. Cacique, Port-au-Prince (nom. 990)
1000	2	TIGPH	Costa Rica	R. Mil, San José (Tibás)
	1	CMFA	Cuba	R. Cadena Agramonte, Camagüey
	0.5	HIDL	Dom. Rep.	R. Novedades, La Vega
	1	TGAH	Guatemala	R. Mil, Guatemala
	1	HRLC	Honduras	R. Continental, San Pedro Sula
	10	YNT	Nicaragua	R. Mil, Managua
	1	WBNB	American Virgin Isl.	Islands Teleradio Service Inc. Charlotte Amalie, St. Thomas
1010	10	HIJP	Dom. Rep.	R. Comercial, Sto Domingo
	1	PJC7-1	Neth. Antilles	R. Hoyer, Willemstad, Curaçao
	1	TGRX	Guatemala	R. Nacional Miramundo, Zacapa
1012	5	CMKM	Cuba	R. Musical Nacional, Holguín
1013	1	HOU	Panama	La Voz del Barú, David (nom. 1025)
1015	10	YSC	El Salvador	R. Internacional, San Salvador (v)
	1	HOU44	Panama	R. Reloj, Panama
1020	0.25	CMBN	Cuba	La Emisora de la Juventud, Nueva Gerona
	0.25	HOF2	Panama	Onda Popular, Colón (rel. 965)
1025	2	TIAC	Costa Rica	R. Fides, San José
	1	YNW3		R. Mundial, Estelí (rel. 930)
1030	0.25	CMAC	Cuba	R. Cad. Prov. de Pinar del Río, San Cristóbal
	0.25	CMDW		R. Liberación, Guantánamo
	10	TGUX	Guatemala	R. Panamericana, Guatemala (v)
	1	HRXE	Honduras	R. Mil Treinta, Juticalpa
	5	YNVOZ	Nicaragua	R. Reloj, Managua (v) (nom. 1015)
1035	10	4VEF	Haiti	R. St. 4VEH, Cap Haitien
	5	YNCN	Nicaragua	R. Central, Chinandega
	1	HOS21	Panama	R. Unión, Panamá
1040	0.25	CMKW	Cuba	R. Frecuencia Popular, Santiago
	1	HION	Dom. Rep.	R. Central, Sto. Domingo
	1	TGJP	Guatemala	R. Oriental, Jalapa
	1	HRXN	Honduras	R. Ceiba, La Ceiba
	1	HRVH		R. Mil, Tegucigalpa
1045	1	HOJ2	Panama	Ondas del Canajagua, Las Tablas
	0.025		Windward Isl.	W.I.B.S., Hillsborough, Carriacou
1050	1	TIGPH	Costa Rica	Monumental, San Isidro del General
	1	HICB	Dom. Rep.	La Voz de la Hispaniola, Santiago
	10	YSU	El Salvador	R. Mil Cincuenta, San Salvador
	1	TGSL	Guatemala	R. Sol. Sta. Lucía
	1	HRLE	Honduras	R. Emperador, San Pedro Sula
	10	PJL3	Neth. Antilles	R. Caribe, Willemstad, Curaçao
	2	YNLL	Nicaragua	R. Masaya, Masaya (v)
1060	5	CMBQ	Cuba	R. Enciclopedia Popular, La Habana
	0.25	CMDD		CMKC Cad. Prov. de Oriente, Las Mercedes
	10	TGXA	Guatemala	R. Centro, Guatemala
	1	HPM21	Panama	R. Diez Sesenta, Panamá
1070	1....	HIBI	Dom. Rep.	R. San Francisco de Macoris
	2	TGD	Guatemala	La Voz de Occidente, Quezaltenango
	1	HRXM	Honduras	R. Meridiano, Choluteca
	0.5	YNTV	Nicaragua	R. Centro, Granada
	0.5	WMIA	Puerto Rico	R. Arecibo, Arecibo
1075	5	TIFC	Costa Rica	Faro del Caribe, San José
1080	0.1	CMHS	Cuba	R. Caibarién, Caibarién
	5	YSDM	El Salvadore	Cad. Radial Salvadoreña, San Miguel
	1	YSEM		R. Difusora YSEM, Planes de Renderos
	1.5	4VA	Haiti	La Voix de la Révolution Duvaliériste, Port-au-Prince (v)
	1	HRVA	Honduras	R. Corona, San Pedro Sula
	1	HOJ23	Panama	R. La Tribuna, Panamá
	0.25	WLEY	Puerto Rico	Ponce Broadc. Corp. "R. Ley", Cayey
1090	1	HIJM	Dom. Rep.	R. Amistad, Licey al Medio, Santiago
	1	YSMG	El Salvador	La Voz del Espino, Ahuachapán
	1	TGAB	Guatemala	R. Cobán, Cobán
	10	TGZ	Guatemala	R. Popular, Guatemala
	1	YNAE	Nicaragua	R. Musún, Matagalpa
	0.25	WRJS	Puerto Rico	R. St. WRJS, San Germán
1100	1	TIRN	Costa Rica	Columbia, San Isidro del General
	0.25	CMHU	Cuba	R. Tiempo, Cienfuegos
	0.5	HIMC	Dom. Rep.	R. Programas Quisqueya, Sto. Domingo
	1	YSRF	El Salvador	R. Femenina, Mejicanos
	3	YNQ	Nicaragua	La Voz de la Victoria, Managua
	0.25	HOR58	Panama	R. Mil Cien, Panamá
1110	0.5	HIMH	Dom. Rep.	R. Real, La Vega
	1	TGMK	Guatemala	R. Marinala, Sta. Lucía
	0.5	HRPL	Honduras	R. Progreso, El Progreso
	0.25	WVJP	Puerto Rico	R. Caguas, Caguas
1115	2	YNP	Nicaragua	R. Circuito, León
	1	HON21	Panama	R. Minutera, Panamá (nom. 1120)
1120	1	CMDL	Cuba	R. Angulo, Holguín (v)
	1	HICN	Dom. Rep.	R. Antillas, Sto. Domingo
	0.5			R. Jarabacoa, Jarabacoa
	1	YSOA	El Salvador	R. Libertad, Cuscatancingo
	1	TGC	Guatemala	R. Poderosa, Guatemala
	0.2	4VF	Haiti	R. Union, Port-au-Prince
	1	HRD4	Honduras	R. Oriental, Danlí
	1	HOF47	Panama	Onda Popular, Darién (relays 965)
1125	1	TISS	Costa Rica	R. Monumental, S. Isidro del General
1130	1	CMHA	Cuba	Onda Musical, Sta. Clara
	1	HIRL	Dom. Rep.	R. Exitos, Santiago
	0.5	YSG	El Salvador	R. Chaparrastique, San Miguel
	1	TGVR	Guatemala	La Voz de la Costa Sur, Retalhuleu
	1	HRRO	Honduras	R. Universal, Tegucigalpa
	10	YNRC	Nicaragua	R. Católica de Nicaragua, Managua
	1	HOJ	Panama	R. Provincias, Chitré (v)
1140	0.5	CMJK	Cuba	R. Camagüey, Camagüey
	3	YST	El Salvador	R. El Mundo, San Salvador.
	1	HOB49	Panama	Cad. Universal, Panamá (v)
	0.5	WITA	Puerto Rico	R. El Imparcial, San Juan
1146	1	4VAB	Haiti	R. Caraibes, Port-au-Prince (nom. 1150)

kHz	kW	Call	Country	Station/Location
1150	1	TIGPH3	Costa Rica	Monumental Canal 2, Ci. Quesada
	1	HIAS	Dom. Rep.	Onda Musical, Sto. Domingo
	1	YSCF	El Salvador	Ondas Orientales, La Unión
	10	TGRR	Guatemala	R. Reloj, Guatemala
	1	HRQN	Honduras	La Voz del Atlántico, Pto. Cortés
	0.5	YNBC	Nicaragua	Ondas Segovias, Estelí
	0.25	HOS25	Panamá	R. Mía de Colón, Colón
1160	0.5	HIDE	Dom. Rep.	R. Tiempo, Cotuí
	1	TGRI	Guatemala	R. Izabal, Pto. Barrios
	0.5	HRTZ	Honduras	R. Cristal, Tegucigalpa
1170	2	TGRL	Guatemala	R. Landívar, Quezaltenango
	0.25	4VRD	Haiti	R. Tropiques, Port-au-Prince
	1	YNWW	Nicaragua	R. Darío, León
	0.25	HONZ	Panamá	Ondas Istmeñas, Panamá
	0.25	WLEO	Puerto Rico	R. St. WLEO, Ponce
1175	2	TICA	Costa Rica	Columbia, Puntarenas
	0.5	YSCB	El Salvadore	La Voz del Pacífico, Sonsonate
1180	10	HIBE	Dom. Rep.	R. Mil, Santo Domingo
	10	TGT	Guatemala	R. Sonora, Guatemala
	1	HOOC	Panamá	Ondas Chiricanas, Panamá
1190	0.5	CMJP	Cuba	R. CMJP, Ciego de Avila
	1	TGLU	Guatemala	R. Novedad
	0.15	4V . .	Haiti	R. Grand-Anse, Jérémie
	1	HRVW	Honduras	R. Centroamérica, San Pedro Sula
	1	HOL47	Panamá	R. Soberana, Panamá
	10/5	WBMJ	Puerto Rico	Mid-Ocean Broadc. Corp, San Juan
1200	1	TIQ	Costa Rica	R. Casino, Puerto Limón
	1	CMKD	Cuba	R. Reloj Nacional, Holguín
	10	HIDV	Dom. Rep.	R. Santa María, La Vega (v)
	1	YSDL	El Salvador	La Voz Popular Salvadoreña, Mejicanos
	1	TGRJ	Guatemala	R. Jutiapa, Jutiapa
	1	HRXW	Honduras	R. Comayagüela, Tegucigalpa
	0.5	YNC	Nicaragua	R. Capital, Managua
	0.05	ACE	Puerto Rico	AFCN, Ft. Brooke
	0.05	NAU		AFCN, Ft. Allen, Ponce
	0.05	NRR		AFCN, Roosevelt Roads,
1210	1	CMHK	Cuba	R. Reloj Nacional, Cruces (v)
	0.25	HICJ	Dom. Rep'	R. Merengue, San Francisco de Macorís
	1	TGED	Guatemala	R. Mil Doscientos Diez, Guatemala (v)
	0.5	4VDS	Haiti	R. Progrès N.B.C, Port-au-Prince
	4	HOE91	Panamá	R. El Mundo, Panamá
	1	WHOY	Puerto Rico	R. Hoy, Salinas
1220	5	CMGW	Cuba	R. Veintiseis, Perico
	1	HIN	Dom. Rep.	R. HIN, Sto. Domingo
	3	YSEW	El Salvador	R. Popular, San Salvador
	0.5	TGMT	Guatemala	R. Luminaria, Antigua
	0.5	YNOP	Nicaragua	R. Cultural, Carazo Jinotepe
	1	HOK36	Panamá	R. Poderosa, Agúadulce
1225	1	TIGM	Costa Rica	R. Victoria, Cartago
1230	0.25	CMJX	Cuba	R. Morón, Morón (v)
	0.25	CMAD		R. Artemisa, Artemisa
	1	TGAT	Guatemala	R. Atlántida, Pto. Barrios
	0.5	HRQL	Honduras	Centro Radial Hondureña, Siguatepeque
	3	YNCW	Nicaragua	R. Occidental, Chinandega
	1	HOB56	Panamá	R. Macarocos
	1	WNIK	Puerto Rico	R. Unica, Arecibo
1240	1	ZNS2	Bahamas	Voice of New Providence, Nassau
	0.25	CMGW	Cuba	R. Veintiseis, Matanzas
	0.25	CMKE		CMKC Cad. Prov. de Oriente, Victoria de las Tunas
	0.5	HICV	Dom. Rep.	R. Barahona, Barahona
	5	HIAU		La Voz de la Libertad, Pto. Plata
	5	TGK	Guatemala	R. Sensación, Guatemala
	1	HRJU	Honduras	R. Juticalpa, Juticalpa
	1	YNSV	Nicaragua	R. El Mundo, Managua
	1	HOM56	Panamá	R. Reloj, David
	1	WALO	Puerto Rico	R. Oriental, Humacao
1250	1	TILM	Costa Rica	Columbia Canal 4, Nicoya
	1	CMHP	Cuba	R. Centro, Placetas
	0.25	CMKA		R. Reloj Nacional, Guantánamo
	5	HIBC	Dom. Rep.	La Voz del Progreso, San Francisco de Macorís
	3	YSI	El Salvador	R. Reloj, San Salvador
	0.5	TGL	Guatemala	R. Victoria, Mazatenango
	0.6	4VYM	Haiti	Radiodif. Haitienne, Port-au-Prince (v)
	1	HRQ	Honduras	La Voz de Suyapa, San Pedro Sula
	0.25	HOQ	Panamá	R. Nacional, Panamá
1260	5	CMCI	Cuba	R. Reloj Nacional, La Habana
	0.25	CMDE		R. Reloj Nacional, Bayamo
	0.25	HIT	Dom. Rep.	R. Tropical, Sto. Domingo
	1	WISO	Puerto Rico	So. Puerto Rico Broadc. Corp, Ponce.
1270	1	CMJG	Cuba	R. Reloj Nacional, Camagüey
	1	HISD	Dom. Rep.	R. TV Dominicana, Stgo. (rel. 620)
	1	TGCQ	Guatemala	Emisora de la Juventud, Guatemala
	1	HRYT	Honduras	R. Estrella de Oro, San Pedro Sula
	1	PJA8	Neth. Antilles	R. Antiliana, St. Nicolaas, Aruba
	2.5	YNWX	Nicaragua	R. Atenas, León
	0.5	HOJ22	Panamá	R. La Tribuna, Panamá
1275	1	TIRE	Costa Rica	R. Emmaus, San Vito de Java
1276	0.5	YSQZ	El Salvador	R. 1270, San Miguel (nom. 1270)
1280	1	CMHM	Cuba	R. Reloj Nacional, Sta. Clara
	0.25	CMDP		R. Reloj Nacional, V de las Tunas
	1	YSV	El Salvador	R. Comercial, Santa Ana
	1	TGAJ	Guatemala	R. Tropicana, Escuintla
	0.2	4VGA	Haiti	R. Capois-la Mort, Port-de-Paix
	1	HRXA	Honduras	R. Choluteca, Choluteca
	0.25	HOU80	Panamá	La Voz del Vigía, Aguadulce
	5/1	WCMN	Puerto Rico	Caribbean Broadc. Corp, Arecibo
1285	2	YNRPS	Nicaragua	R. Granada, Granada
1290	0.25	CMKF	Cuba	R. CMKF, Guantánamo (v)
	1	HIVM	Dom. Rep.	R. Bonao, Bonao
	1	TGTU	Guatemala	R. Nacional, Totonicapán
1295	10	PJD2	Neth. Antilles	Voice of Sint Maarten, Philipsburg
	1	HOS23	Panamá	R. Mía, Panamá (nom. 1290)
1300	1.5	TIJJH	Costa Rica	R. Alajuela, Alajuela
	1	CMJQ	Cuba	R. Nuevitas, Nuevitas (v)
	0.5	HIKQ	Dom. Rep.	R. Radio, Santo Domingo
	1	YSHX	El Salvador	El Sonido de la Música, Cuscatancingo
	5	TGAR	Guatemala	R. Quetzal, Guatemala
	1	HRXX	Honduras	R. Lima, La Lima
	2	YNRA	Nicaragua	La Voz de Chinandega, Chinandega
	1	WTIL	Puerto Rico	R. Útil, Mayagüez
1310	0.25	CMDO	Cuba	CMKC Cad. Prov. de Oriente, Banes
	1	HISD	Dom Rep.	R. TV Dominicana, El Seibo (rel. 620)
	0.5	HIAV		R. Baní, Baní
	1	TGAN	Guatemala	La Voz de los Altos, Quezaltenango
	40		Martinique	O.R.T.F., Fort-de-France
	0.25	HOK3	Panamá	La Onda de la Alegría, Colón
1320	0.25	CMAL	Cuba	R. Reloj Nacional, Pinar del Río
	5/1	WUNO	Puerto Rico	R. Uno, Río Piedras
1325	1	TIRG	Costa Rica	R. Columbia, Liberia
	1	HIHD	Dom. Rep.	La Voz de Oriente, San Pedro de Macorís (nom. 1320)
	1.5	4VW	Haiti	R. Haiti, Port-au-Prince (nom. 1330)
	1	PJA10	Neth. Antilles	Voice of Aruba, Oranjestad, Aruba
1330	1	HIDB	Dom. Rep.	R. Libertad, Santiago
	5	YSHQ	El Salvador	R. Progreso, San Salvador
	10	TGMU	Guatemala	Unión R., Guatemala
	1	YNEB	Nicaragua	R. Fronteras, Somoto
	1	HOM92	Panamá	Canal 13, Panamá
1335	1	HRH6	Honduras	R. El Mundo, San Pedro Sula (nom. 1340)
1340	0.25	CMGU	Cuba	R. Reloj Nacional, Coló
	1			AFRTS, Guantánamo Bay
	1	HIBZ	Dom. Rep.	R. Centro, San Juan de la Maguana
	1	YSXW	El Salvador	R. San Miguel, San Miguel (v)
	0.5	YNDM	Nicaragua	Ondas Sonoras, Managua
	0.25	WUNA	Puerto Rico	Noroeste Broadc. Corp, Aguadilla
	0.25	WSTA	American Virgin Isl.	R. St. WSTA, St. Thomas
1350	1	TIJRA	Costa Rica	R. Sideral, San Ramón
	0.25	CMKY	Cuba	R. Puerto Padre, Puerto Padre
	1	HIXZ	Dom. Rep.	R. Triunfo, Sto. Domingo
	2	YNRM	Nicaragua	R. Alma Latina, Estelí
1354	1	HRME	Honduras	R. El Mundo, La Ceiba (nom. 1350)
1360	0.25	CMBG	Cuba	R. Popular, La Habana
	1	HISD	Dom. Rep.	R. TV. Dominicana, La Vega (rel. 620)
	10	TGLK	Guatemala	R. Tic-Tac, Guatemala
	0.25	YNGF	Nicaragua	Ondas del Sur, Jinotepe
	0.25	HOG53	Panamá	R. Cultural, Chilibre
1370	1	HISD	Dom. Rep.	R. TV Dominicana, Barahona (rel. 620)
	0.5	YSMQ	El Salvador	La Voz de las Colinas, Sta. Tecla

kHz	kW	Call	Country	Station/Location
1370	0.5	TGAC	Guatemala	R. Cultural de Colomba, Colomba
	1	YNX	Nicaragua	Estación Equis, Esteli (rel. 750)
	1	HOQ38	Panama	R. Colosal, David
	1	WIVV	Puerto Rico	Calvary Baptist Mission, Vieques Island
1375	1	TIMAR	Costa Rica	Monumental, Limón
1380	5	HIJC	Dom. Rep.	R. Maibá, Santiago
	1	HRVC	Honduras	R. Evangélica, Tegucigalpa
	0.25	HP6J	Panama	La Voz de Panamá, Panamá
	1	TGMG	Guatemala	R. Nacional, Pto. Matías de Gálvez
1385	1	4VS	Haiti	R. Port-au-Prince (nom. 1380)
	1	PJB2	Neth. Antilles	Voice of Bonaire, Bonaire
1390	0.25	CMKX	Cuba	R. Bayamo, Bayamo (v)
	1	HISD	Dom. Rep.	R. TV Dominicana, S. Juan de la Maguana (rel. 620)
	5	TGYC	Guatemala	R. Istmania, Guatemala
	1	HRFS	Honduras	R. Primero de Mayo, Tela
	0.25	HOL	Panama	R. Atlántico, Colón
	1/0.5	WISA	Puerto Rico	R. Noroeste, Isabela
1400	1	TILG	Costa Rica	R. Cariari, Pto. Limón
	1	HIBN	Dom. Rep.	R. Puerto Plata, Pto. Plata
	1	HIAL		Ondas del Valle, La Vega
	1.5	YSJI	El Salvador	La Voz del Litoral, Usulután
	1	HRPI	Honduras	El Eco de Honduras, San Pedro Sula
	1	YNX	Nicaragua	Estación Equis, Juigalpa (rel. 750)
	1	HOHS	Panama	Ondas Centrales, Santiago
	0.25	WVOZ	Puerto Rico	R. Voz, Carolina
1410	1	TGGH	Guatemala	R. Xelaju, Quezaltenango
	1	HORS	Panama	R. Selecta, Panamá
1420	0.25	CMKZ	Cuba	R. Palma, Palma Soriano
	1	HIAE	Dom. Rep.	R. Tricolor, Sto. Domingo (v) (nom. 1410)
	4		Guadeloupe	O.R.T.F., Basse-Terre (Citerne)
	1	TGRP	Guatemala	R. Dial Catorce, Guatemala
	1	HRQW	Honduras	R. Trópico, Tela
	1	ACB20	Canal Zone	Southern Command Net, Ft. Davis (rel. 790)
	1	WEUC	Puerto Rico	Emis. de la Univ. Católica, Ponce
1425	1	TICJ	Costa Rica	R. Sinaí, San Isidro del General
1430	0.25	CMDX	Cuba	R. Baracoa, Baracoa
	1	HIVG	Dom. Rep.	R. Momento, La Vega
	0.5	YSHF	El Salvador	R. Caribe, Cojutepeque
	0.5	TGAG	Guatemala	La Voz de Huehuetenango, Heuhuetenango
	1	4VGM	Haiti	Magloire Broadc. Circuit, Port-au-Prince (v)
	10	YNAJ	Nicaragua	La Voz de América, Managua
	5/0.5	WNEL	Puerto Rico	Atlantic Broadc. Corp, Caguas
1435	1	PJA5	Neth. Antilles	R. Kelkbloom, Oranjestad, Aruba
1440	1	HIAD	Dom. Rep.	R. San Juan, San Juan de la Maguana
	1	HIFS		R. Bahía, Nagua
	0.5	HIAK		R. Progreso, Sto. Domingo
	1	HRXA	Honduras	Unión Radio, Tegucigalpa
	0.5	YNMS	Nicaragua	Ondas Populares, León
1442	0.25	HOC	Panama	Cadena Panameña de Radiodifusión, Colón (nom. 1440)
	1	TIMMC	Costa Rica	R. Golfito, Pto. Golfito (nom. 1450)
1445	1	HIRV	Dom. Rep.	La Voz del Caribe, San Pedro de Macorís (nom. 1450)
1450	0.5	HIAC	Dom. Rep	Ondas del Cibao, Salcedo
	0.5	HIAR		R. San Cristóbal, San Cristóba.
	1	HIHG		R. Beler, Dajabón
	0.5	TGMS	Guatemala	R. Nacional, Mazatenango
	1	TGLG		R. Variedades, Guatemala
	1	YNDN	Nicaragua	R. City, Managua
	1/0.25	WCPR	Puerto Rico	R. Coamo, Coamo
1456	0.25	HOD42	Panama	La Voz de Almirante, Almirante (nom. 1460)
1460	0.25	CMCG	Cuba	R. Mariano, Mariano
	0.5	HIAN	Dom. Rep.	R. Maguá, Hato Mayor
	1	TGRN	Guatemala	R. Petén, Flores Petén
	0.15	4VCP	Haiti	La Voix de Nord, Cap-Haitien (v)
1460	0.3	YNTJ	Nicaragua	R. Ecos de las Brumas, Jinotega
	0.5	WFBA	Puerto Rico	R. Pepino, San Sebastián
1462	5	TIDVC	Costa Rica	R. Monumental, Ci. Quesada (nom. 1475)
1465	0.5	HIAG	Dom. Rep.	R. Azul, Santiago (nom. 1470)
1470	0.25	CMGE	Cuba	R. Ciudad Bandera, Cárdenas
	2	YSON	El Salvador	R. Cristal, San Salvador
1475	2	YNAG	Nicaragua	R. Cosiguina, Chinandega
1480	1	TGIZ	Guatemala	La Voz de la Marimba, Mixco
	1	HROC	Honduras	R. Bahía, Roatán
	5	WMDD	Puerto Rico	La Voz del Oriente, Fajardo
1490	0.5	HIAH	Dom. Rep.	R. Sensacional, Sto. Domingo
	0.25	HIKF		R. Azua, Azua
	1	TGCO	Guatemala	La Voz del Trópico, Quezaltenango
	1	TGHU		Circuito TGHU, Antigua
	0.25	HOR43	Panama	R. Exito, La Chorrera
1500	1	TIL3	Costa Rica	Columbia Canal 3, Liberia
	0.25	HIAP	Dom. Rep.	R. Gabino, Moca
		4VOC	Haiti	R. Select, Port-au-Prince
	0.195	4VWB		R. Citadelle, Cap-Haitien
	1	HRMH	Honduras	La Voz del Junco, Sta. Bárbara
	1	PJC7-2	Neth. Antilles	R. Hoyer, Willemstad, Curaçao (v)
	1.5	YNPT	Nicaragua	R. Tierra Pinolera, Managua
	1	HON	Panama	R. Aeropuerto, Colón (v)
	1/0.25	WMNT	Puerto Rico	R. Atenas, Manatí
1505	1	HOA95	Panama	Cabina 95, Panamá
1510	1	HIPS	Dom. Rep.	R. Nagua, Nagua
	0.25	YSMS	El Salvador	R. Centroamericana, S. Salvador
	1	TGDZ	Guatemala	R. Centroaméricana, Guatemala
	0.25	HOK37	Panama	Ondas de San Pablo, Soná
1515	1	YNCZ	Nicaragua	R. Progreso, León
1520	1	CMKT	Cuba	Circuito CMKT Victoria de las Tunas
	1	HIBL	Dom Rep.	R. Pueblo, Sto. Domingo (v 1515-1530)
	1	HOR20	Panama	R. Coclé, Penonomé
	10	WRAI	Puerto Rico	R. Aeropuerto Internacional, San Juan
1525	10	TIEEAW	Costa Rica	R. Turrialba, Turrialba
1530	1	YNRF	Nicaragua	R. Voz de Rivas, Rivas
	1/0.25	WUPR	Puerto Rico	R. U.P.R., Utuado
1535	0.025		Windward Isl.	W.I.B.S., Chateaubelair, St. Vincent
1540	10	ZNS	Bahamas	Nassau
	1	TGRF	Guatemala	Faro Aviateca, Guatemala
	1	PJL3	Neth. Antilles	R. Caribe, Willemstad, Curaçao
	1	HOE28	Panama	R. TNT, Panamá
1550	1	TICCR	Costa Rica	R. Cima, Ciudad Quesada
	2	TIMET		R. Meteorológico, San José
	0.25	CMDV	Cuba	R. CMDV, Santiago
	1	TGRE	Guatemala	R. Modelo, Retalhuleu
	0.25	WKFE	Puerto Rico	R. Café, Yauco
1560	1/0.25	HIFB	Dom. Rep.	R. El Mundo, Sto. Domingo
	0.25	YNPR	Nicaragua	R. Centroamérica, Managua
	5	WRSJ	Puerto Rico	R. San Juan, San Juan
1565	0.25		Windward Isl.	W.I.B.S., Castries, St. Lucia
1566	0.25	CMGB	Cuba	R. Reloj Nacional, Varadero (nom. 1560)
1570	1	TGVE	Guatemala	La Voz Evangélica, Guatemala
	0.1	HOE35	Panama	R. Once, Colón
1575	1	TIJJC	Costa Rica	Columbia Canal Dos, Palmares
1580	0.5	HIWJ	Dom. Rep.	R. Samaná, Samaná
1590	0.25	CMDF	Cuba	R. Guacanayabo, Manzanillo
	1	HIAJ	Dom. Rep.	R. Unión, Sto. Domingo
	1	YNAW	Nicaragua	R. Colinas, Jinotega
	1	WXRF	Puerto Rico	Guayama Broadc. Co, Guayama
1600	1	TI..	Costa Rica	R. Continental, San Ramón
	1	TIACA		La Voz de Costa Rica, San José
	1	HIBS	Dom. Rep.	R. San Pedro, San Pedro de Macoris
	1	HIDA		R. Hit Musical, Santiago
	1.6	YNKS	Nicaragua	R. Panaméricana, Chinandega
	1	WLUZ	Puerto Rico	R. Luz, Bayamón

SOUTH AMERICA

kHz	kW	Call	Country	Station/Location
536	5		Falkland Isl.	Falkland Isl. Broadc. Sce, Stanley
540	25/5	LRA14	Argentina	R. Nacional, Santa Fé
	10	ZYR98	Brazil	R. Nove de Julho, São Paulo, SP
	1	—		R. Tambaú, João Pessôa, PB
	1	CB54	Chile	R. Ignacio Serrano, Melipilla
	1	CD54		R. Sur, Valdivia
	10	HJKA	Colombia	Horizonte, Bogotá
	5	HCFA2	Ecuador	R. Tropical, Guayaquil
	5	OAX3X	Peru	La Voz de la Costa, Chimbote
	25	YVOV		R. Periją, Machiques
550	10	ZYZ22	Brazil	E. Eldorado, Rio de Janeiro, GB
	5	HCDG1	Ecuador	R. Ecuatoriana, Quito
	4.5	CW1	Uruguay	R. Colonia, Colonia
560	10/3	LRA13	Argentina	R. Nacional, Bahia Blanca
	10/25	LV1		R. Colón, San Juan
	5/3	LT15		R. Concordia, Concordia
	5	ZYN41	Brazil	R. Jornal de Itabuna, Itabuna BA
	10	ZYM5		R. Soc. Guairacá, Curitiba, PR
	1	ZYN4		R. Soc. de Passos, Passos, MG
	10	HJGS	Colombia	Transm. de la Independencia, Tunja
	10	HCRM2	Ecuador	R. Mambo, Guayaquil
	10		Guiana	Guiana Broadc. Co. Ltd, Georgetown
	0.25	ZP15	Paraguay	La Voz de Amambay, Pedro Juan Caballero
	1	OAX5P	Peru	R. Pisco, Pisco
	1	OBZ4L		La Voz del Oriente, Lima (Chinese prgr.)
	98	YVLX	Venezuela	R. Rumbos, Caracas (Villa de Cura)
570	50	CB57	Chile	R. Soc. Nacional de Agricultura, Santiago
	100	HJND	Colombia	R. Nacional, Bogotá
	1	HCRM1	Ecuador	R. Musical, Quito
	1	HC..5		R. Muscial, Cuenca
	1	OAX5K	Peru	R. Progreso, Chimbote
	1	OBX5F		R. Constelación, Ica
580	10/5	LW1	Argentina	R. Univ. de Córdoba, Córdoba
	25/10	LU20		R. Chubut, Trelew
	1	—	Brazil	R. Repórter, Recife, PE
	1	ZYM3		R. Cataguazes, Cataguazes, MG
	1/0.5	PRG5		R. Atlântica de Santos, Santos, SP
	1/0.5	ZYD4		R. Clube de Londrina, Londrina, PR
	1/0.5	ZYM25		R. Dif. Brasileira, Prata, MG
	10/5	ZYW27		R. Dif. de Goiânia, Goiânia, GO
	0.5	CX58	Uruguay	R. Clarín, Montevideo
	10	YVMJ	Venezuela	La Voz de la Fé, Maracaibo
590	25/5	LV12	Argentina	R. Independencia, Tucumán
	10/5	LS4		R. Porteña, Buenos Aires
	5/1	LU8		R. Bariloche, San Carlos de Bariloche
	10/5	ZYN38	Brazil	R. Cruzeiro da Bahia, Salvador, BA
	0.5	ZYV46		R. Pampulha, Belo Horizonte, MG
	1	ZYZ21		R. Relógio Federal, Rio de Janeiro, GB
	5/1	ZYS50		R. Dif. Ouro Verde, Curitiba, PR
	1	CA59	Chile	R. Mineria, Antofagasta
	1	CC59		R. Cóndor, Concepción
	10	HJCR	Colombia	R. Sutatenza, Medellín
	20	YVKL	Venezuela	R. Continente, Caracas
595	0.2	HCSP1	Ecuador	R. Minutera, Quito
600	50	PRH2	Brazil	R. Farroupilha, Pôrto Alegre, RS
	25	HJHJ	Colombia	R. Libertad, Barranquilla
	0.5	HCRL6	Ecuador	R. Libertador, Saquisili
	1	OAX7E	Peru	R. Nacional del Perú, Puno
	10		Surinam	R. Paramaribo, Paramaribo
	10	YVQB	Venezuela	R. Sucre, Cumaná
610	25	HJKL	Colombia	Emis. Nueva Granada, Bogotá (Monserrate)
	0.5	OBZ4U	Peru	R. Barranca, Barranca
	5	CX4	Uruguay	R. Rural, Montevideo
	10	YVSE	Venezuela	R. Cristal, Barquisimeto
620	5	LRA12	Argentina	R. Nacional, Santo Tomé
	5	LRA10		R. Nacional, Ushuaia
	5/1.5	LV14		R. Joaquín V. González, La Rioja
	1	CP63	Bolivia	R. San Gabriel, La Paz (Peñas)
	10	ZYH35	Brazil	R. Assunção Cearense, Portaleza, CE
620	10/5	PRH7	Brazil	R. Panamericana, São Paulo, SP
	1	CA62	Chile	R. Norte Verde, Ovalle
	10	CC62		Nueva R. El Sur, Concepción
	10	HJEL	Colombia	R. Tricolor, Cali
	0.45	OAX7V	Peru	Gran Unidad Escolar, Cuzco
	1	OAX5T		R. La Voz de Huamanga, Huamanga
	0.4	OAX2M		R. Chepén, Chepén
	10	YVNO	Venezuela	R. Libertad, Cabimas
625	1	HCRF4	Ecuador	Canal Manabita, Portoviejo
	0.3	HCRF3		R. Fénix, Zaruma
630	20/4	LS5	Argentina	R. Rivadavia, Buenos Aires
	25/10	LU4		R. Patagonia, Comodoro Rivadavia
	1	PRJ4	Brazil	R. Dif. de Sergipe, Aracajú, SE
	1	ZYR93		R. Clube Ararense, Araras, SP
	0.5	ZYV29		R. Itatiaia, Belo Horizonte, MG
	1	ZYV44		R. Dif. de Uberaba, Uberaba, MG
	1/0.25	ZYU37		R. Santamariense, Santa Maria, RS
	1	ZYM6		R. Mirador, Rio do Sul, SC
	1	ZYX25		R. Bom Jesús de Cuiabá, Cuiabá, MT
	1	ZYA3		R. Dif. Cambará, Cambará, PR
	0.1	CA63	Chile	R. Chañaral, Chañaral
	1	CB63		R. La Reina, Santiago
	1	CB63B		R. Pres. Prieto, Valparaiso
	—	CC63		R. Constitución, Constitución
	20	HJFD	Colombia	R. Manizales, Manizales
	10	YVKA	Venezuela	R. Nacional, Caracas
	10	YVSL		R. Nacional, San Cristóbal
640	25/10	LU4	Argentina	R. Patagonia, Comodoro Rivadavia (cf. 630)
	1	LV15		R. Villa Mercedes, Villa Mercedes
	10/5	ZYI22	Brazil	R. Cabugi, Natal, RN
	1/0.25	ZYS47		R. Curitibana, Curitiba, PR
	1/0.5	ZYR219		R. A Voz da Araraquarense, Araraquara, SP
	10/5	PRF9		R. Dif. Portoalegrense, Pôrto Alegre, RS
	1	PRG6		R. Soc. Mantiqueira, Cruzeiro, SP
	1	CA64	Chile	R. Esmeralda, Iquique
	10	CD64		R. Cautín, Temuco
	10	HJBJ	Colombia	La Voz de Sta. Marta, Sta. Marta
	10	HCXY1	Ecuador	R. Nacional del Ecuador, Quito
	1	ZP16	Paraguay	R. Pres. Stroessner, Pto. Pres. Stroessner
	10	OAZ4K	Peru	R. del Pacífico, Lima
	1	OBX7B		Onda Azul, Puno
	10	YVQO	Venezuela	Ondas Porteñas, Pto. La Cruz
650	10	HJKH	Colombia	Emis. Monserrate, Bogotá
	1	OAX2N	Peru	Ondas del Norte, Trujillo
	1	OAX5R		R. Regionalista, Ica
	50	CX6	Uruguay	S.O.D.R.E, Montevideo
	50	YVLH	Venezuela	R. Girardot, Maracay
655	1		Surinam	RADIKA, Paramaribo (v)
660	50	CB66	Chile	Nueva R. Chilena, Santiago
	10	HJJM	Colombia	R. Uno, Cali
	10	YVNA	Venezuela	Ondas de los Médanos, Coro
665	0.45	HCFM2	Ecuador	R. Ventanas, Ventanas
670	25/5	LU9	Argentina	R. Mar del Plata, Mar del Plata
	5/1	LT7		R. Prov. de Corrientes, Corrientes
	10	ZYM22	Brazil	R. Cultura de Sergipe, Aracajú, SE
	10	ZYR56		R. Excelsior, São Paulo, SP
	5/1			R. São Francisco, Anápolis, GO
	10	HJNX	Colombia	R. Tricolor, Medellín (Bello) (v)
	1	HCSJ1	Ecuador	R. Xavier, Quito
	1	OBX4A	Peru	R. Universal, Callao
	50	YVLL	Venezuela	R. Rumbos, Caracas (El Junquito)
675	10	HCAV2	Ecuador	R. Atalaya, Guayaquil
	10	HCVP2		R. Ondas Lojanas, Loja
680	25/5	LU12	Argentina	R. Río Gallegos, Río Gallegos
	25/5	LV6		R. Nihuil, Mendoza
	5	CP34	Bolivia	R. Méndez, La Paz
	5	ZYP20	Brazil	R. Copacabana, Rio de Janeiro, GB
	1/0.5	ZYS65		R. Dif. de Ponta Grossa, Ponta Grossa, PR

kHz	kW	Call	Country	Station/Location
680	5	ZYF24	Brazil	R. Dif. do Maranhão, São Luiz, MA
	10	PRC2		R. Gaúcha, Pôrto Alegre, RS
	0.5	ZYR29		R. Cacique de Sorocaba, Sorocaba, SP
	1	ZYR255		R. Colorado, Ribeirão Prêto, SP
	5	ZYD7		R. Soc. Norte de Minas, Montes Claros, MG
	10	CC68	Chile	R. Univ. de Concepción, Concepción
	10	HJAQ	Colombia	R. Miramar, Cartagena
	0.2	HCWC1	Ecuador	R. Cristóbal Colón, Pinampiro
	5	OBX1S	Peru	La Voz de Tumbes, Tumbes
	1/0.25	CW27	Uruguay	R. Tabaré, Salto
	10	YVQF	Venezuela	R. Bolivar, Ciudad Bolivar
690	5	LRA9	Argentina	R. Nacional, Esquel
	10/5	LRA4		R. Nacional, Salta
	10	ZYH29	Brazil	R. Dragão do Mar, Fortaleza, CE
	1/0.25	ZYL22		R. Educ. Palmares de Alagoas, Maceió, AL
	10	PRC7		R. Mineira, Belo Horizonte, MG
	1/0.5	ZYW3		R. Clube de Lajes, Lajes, SC
	10	CB69	Chile	R. Santiago, Santiago (v)
	10	HJCZ	Colombia	La Voz de Colombia, Bogotá (v)
	10	OAX6C	Peru	R. Continental, Arequipa
	1	OAX3F		R. Chimbote, Chimbote
	0.4	OAZ4F		R. La Oroya, La Oroya
	10/5	CX8	Uruguay	R. Sarandí, Montevideo
	50	YVMR	Venezuela	R. Barquisimeto, Barquisimeto
695	3	HCRS2	Ecuador	R. Sucre, Guayaquil
700	50	ZYR213	Brazil	R. Eldorado, São Paulo, SP
	30	HCJB1	Ecuador	La Voz de los Andes, Quito
	10	ZP12	Paraguay	R. Carlos Antonio Lòpez, Pilar
	1	OBZ4H	Peru	R. Progreso, San Miguel
	10	YVMH	Venezuela	R. Popular, Maracaibo
710	50	LS1	Argentina	R. Municipal, Buenos Aires
	10	HJFT	Colombia	Ecos del Combeima, Ibagué
	10	OBX1P	Peru	R. San Juan, Piura
	5	YVKY	Venezuela	La Voz de la Patria, Caracas
715	1	HCAM4	Ecuador	La Voz del Valle, Portoviejo
720	20/5	LV10	Argentina	R. de Cuyo Mendoza
	50	ZYU58	Brazil	R. Guaíba, Pôrto Alegre, RS
	25	PRA8		R. Clube do Pernambuco, Recife, PE
	1			R. Cultura, Belo Horizonte, MG
	1	ZYV70		R. Bela Vista, Uberlândia, MG
	1	ZYA8		R. Dif. Taubaté, Taubaté, SP
	10	HJAN	Colombia	Emis. Unidas, Barranquilla
	0.4	HCIC1	Ecuador	R. Municipal, Quito
	5	OCY4M	Peru	La Voz de la Sierra, Huancayo
	10	YVQR	Venezuela	R. Cumaná, Cumaná
725	10	HCMB2	Ecuador	R. Guayaquil, Guayaquil
	50	SRS	Surinam	Stichting R. Omroep Surinam , Paramaribo (v)
730	20/5	LRA3	Argentina	R. Nacional, Santa Rosa
	5	LU14		R. Prov. de Santa Cruz, Rio Gallegos
	5/1	LW7		R. Catamarca, Catamarca
	5	CP27	Bolivia	R. Cruz del Sur, La Paz
	1	ZYK40	Brazil	A Voz do São Francisco, Petrolina, PE
	1/0.5	ZYV53		R. Dif. Minas Gerais, Juiz de Fora, MG
	1	ZYO21		R. Vitória, Vitória ES
	1/0.25	ZYO9		Soc. R Tubá, Tubarão, SC
	1			R. Nordeste, Macau, RN
	2	ZYR80		R. Hora Certa, São Paulo, SP
	1/0.25	ZYH8		R. Marumbi, Curitiba, PR
	10/5	CB73	Chile	La Voz de Chile, Valparaiso
	10	HJCU	Colombia	R. Tricolor, Bogotá (v)
	1.5	ZP7	Paraguay	R. Guaraní, Asunción
	1.5	OAX5E	Peru	R. Independencia, Ica
	1	OBX4S		R. Sudamericana, Lima
	5/2.5	CX10	Uruguay	R. Ariel, Montevideo
	10	YVMT	Venezuela	R. Universo, Barquisimeto
735	0.25	HCSE4	Ecuador	R. Libertad, Chone
740	50	PRA4	Brazil	R. Soc. da Bahia, Salvador, BA
	10	HJHB	Colombia	Ecos de Pasto, Pasto
	1.5	HCBG1	Ecuador	R. Sport, Quito
	10	YVNC	Venezuela	R. Maracaibo, Maracaibo
750	50	LRA7	Argentina	R. Nacional, Córdoba
	50	HJDK	Colombia	La Voz de Antioquia, Medellín
	0.5	HCCT2	Ecuador	R. Centenario, Guayaquil
	1	OAX3T	Peru	R. Mundo, Chimbote
	0.25	OAX1B		R. Sudamericana, Piura
750	10	YVKS	Venezuela	R. Caracas, Caracas
760	75	CB76	Chile	La Voz de Chile, Santiago
	10	HJAJ	Colombia	La Voz de Barranquilla, Bartanquilla
	5	HCRQ1	Ecuador	R. Quito, Quito
	10	ZFY	Guiana	R. Demerara, Georgetown
	20	ZP5	Paraguay	R. Encarnación, Encarnación
	10	OBZ4X	Peru	R. Los Andes, Lima
770	30	HJJX	Colombia	R. Tequendama, Bogotá
	0.4	OBX7N	Peru	R. Ilave, Juliaca
	25	CX12	Uruguay	R. Oriental, Montevideo
	10	YVQQ	Venezuela	R. Pto. La Cruz, Puerto La Cruz
775	1	HCMF2	Ecuador	R. La Prensa, Guayaquil
780	5	LRA8	Argentina	R. Nacional, Formosa
	10/5	LV8		R. Libertador, Mendoza
	0.25	CP46	Bolivia	R. Universo, La Paz
	0.25	CP61		La Voz del Ferroviario, Uyuni
	0.25	CP108		R. Independencia, Cochabamba
	0.25	CP56		La Voz Minera, Telemayu
	0.25	CP52		R. Potosí, Potosí
	25	PRL6	Brazil	R. Jornal do Comércio, Recife, PE
	5	PRK8		R. Soc. Marconi, São Paulo, SP
	1	ZYU71		R. Princesa de Jacuí, Pôrto Alegre, RS
	1	ZYU55		R. Emis. Veranense, Veranópolis, RS
	1	CA78	Chile	R. Libertad, Antofagasta
	1	CB78		R. Caupolicán, Valparaiso
	1	CD78		R. La Frontera, Temuco
	30	HJZG	Colombia	R. El País, Cali
	0.3	HCRG4	Ecuador	R. Umiña, Manta
	10	OAX4X	Peru	R. Victoria, Lima
	10	YVOD	Venezuela	Ecos del Torbes, San Cristóbal
785	0.2	HCAA1	Ecuador	R. Noticia, Quito
790	50	LR6	Argentina	R. Mitre, Buenos Aires
	10	HJDC	Colombia	R. Quince, Medellín
	0.3	HCPT5	Ecuador	La Voz del Perpetuo Socorro, Cuenca
	5	OAX21	Peru	C.R.U., Trujillo
	5	YVKC	Venezuela	R. dif. Venezuela, Caracas
800	25	PRA2	Brazil	R. Ministerio da Educação, Rio de Janeiro, GB
	10	HCDE2	Ecuador	R. Bolivar, Guayaquil
	1	OAX2V	Peru	R. OAX2V, Cajamarca
	0.5	OAZ4U		R. San Juan, Huaral
	1	OAX3Y		R. Selva, Tingo María
	1	OCY4T		R. Progreso, Huancayo
	0.35	OBX6A		R. Porteña, Ilo.
	0.5	OBX5B		R. Sur Medio, Ica
	0.5	OBZ4A		R. San Antonio, Cañete
807	1.2	HCFV1	Ecuador	Canal Tropical, Quito
810	10	HJCY	Colombia	R. Sutatenza, Bogotá
	0.2	HCVT2	Ecuador	R. Atalaya, El Milagro
	5	OAX8S	Peru	R. San José, Iquitos
	1	OBX1L		R. Start, Chiclayo
	25	CX14	Uruguay	R. El Espectador, Montevideo
	10	YVLP	Venezuela	R.Ochocientos Diez, Valencia
812	10	HJBW	Colombia	R. Atalaya, Bucaramanga (nom. 810)
820	25/1	LU2	Argentina	R. Bahia Blanca, Bahia Blanca
	20/3	LT16		R. Splendid, Pres. Roque Sáenz Peña
	1	CP35	Bolivia	R. Altiplano, La Paz
	10	ZYK37	Brazil	R. da Univ. de Recife, Recife, PE
	1/0.25	ZYA4		R. Dif. Paraisense, São Sebastião do Paraíso, MG
	1	ZYT42		R. Nereu Ramos, Blumenau, SC
	1	ZYR94		R. Universal, Santos, SP
	0.25	CA82	Chile	R. Pampa, P. de Valdivia
	1	CB82		R. del Pacífico, Santiago
	1	CC82		R. Almirante Latorre, Talcahuano
	1	CD82		R. Concordia, La Unión
	50	HJED	Colombia	La Voz del Rio Cauca, Cali (Buga)
	1	OAX2J	Peru	R. Sudamericana, Trujillo
	1	OAX4O		R. Libertad, Lima
	1/0.5	CW23	Uruguay	R. Cultural, Salto
	10	YVSH	Venezuela	R. Guayana, Upata
825	1.5	HCEE1	Ecuador	R. Nacional Espejo, Sto. Domingo de los Colorados
	0.35	HCGB2		R. Nacional Espejo, Guayaquil
830	10/5	LT8	Argentina	R. Rosario, Rosario
	25/5	LV9		R. Güemes, Salta
	50	LRA17		R. Nacional, Zapala
	10	HJDM	Colombia	R. Visión, Medellín (v)
	1	OAX3S	Peru	R. Casma, Casma

kHz	kW	Call	Country	Station/Location
830	1	OBX1L	Peru	R. Nor Peru, Chiclayo
	10	YVLT	Venezuela	R. Miranda, Los Teques
835	1	HCCD1	Ecuador	R. Punto 83, Quito
840	5	LV4	Argentina	R. Splendid, San Rafael
	10/5	LT12		R. General Madariaga, Corrientes
	1		Brazil	Emis. de Educação Rural, Caicó, RN
	10/5	ZYD8		R. Excelsior de Bahia, Salvador, BA
	1.25	ZYV64		R. Por Um Mundo Melhor, Gov. Valadares, MG
	10/5	PRH9		R. Bandeirantes, São Paulo, SP
	1	ZYT33		R. Rural, Concórdia, SC
	1	ZYU77		R. Cultura de Gravataí, Pôrto Alegre, RS
	5	ZYW42		R. Jornal de Goiás, Goiânia, GO
	1	ZYS89		R. Tabajara de Londrina, Londrina, PR
	10	CB84	Chile	R. Portales, Valparaiso
	1	CD84		R. Llaimá, Curacautin
	10	HJB1	Colombia	Ondas del Caribe, Santa Marta
	1	PZX7	Surinam	R. Apintie, Paramaribo
	10	YVMY	Venezuela	R. Juventud, Barquisimeto
845	0.8	HCET6	Ecuador	R. Tricolor, Ambato
850	50	HJKC	Colombia	Emis. Nuevo Mundo, Bogotá
	1	HCAJ2	Ecuador	La Voz del Santísimo, Guayaquil
	50	CX16	Uruguay	R. Carve, Montevideo
	10	YVLD	Venezuela	R. Valencia, Valencia
854	10	OAX4A	Peru	R. Nacional del Perú, Lima
860	50	PRA3	Brazil	R. Mundial, Rio de Janeiro, GB
	10	HJEP	Colombia	Voces de Occidénte, Buga
	1.2	HCFF1	Ecuador	R. Jesús del Gran Poder, Quito
	10	YVOL	Venezuela	R. Junín, San Cristóbal
865	0.4	HCOA7	Ecuador	R. 12 de Febrero, Puyo
870	100	LRA	Argentina	R. Nacional, Buenos Aires (General Pacheco)
	10	HJLA	Colombia	La Voz del Tolima, Ibagué
	5	HCNY2	Ecuador	R. Cristal, Guayaquil
	1	OBX1F	Peru	C.R.U., Chiclayo
	0.25	OAZ4Y		R. La Montaña, Satipo
	5	YVKU	Venezuela	R. Libertador, Caracas
880	50	PRI3	Brazil	R. Inconfidência, Belo Horizonte, MG
	10	ZYU33		R. Itaí, Pôrto Alegre
	10	HJGE	Colombia	R. Bucaramanga, Bucaramanga
	0.5	HCRP1	Ecuador	R. Católica, Quito
	10	OBZ4N	Peru	R. Unión, Lima
	10	YVMP	Venezuela	R. Lara, Barquisimeto
885	0.2	HCLG3	Ecuador	Ondas Azules, Santa Rosa
890	20	ZYK20	Brazil	R. Tamandaré, Recife, PE
	10/5	PRA6		R. Gazeta, São Paulo, SP
	5			R. Alvorada de Londrina, Londrina, PR
	5.2	PRM3		R. Planalto, Brasília, DF
	5	CB89	Chile	R. Bulnes, Santiago
	1	CC89		R. Interamericana, Concepción
	1	CD89		R. Polar, Punta Arenas
	10	HJCE	Colombia	La Voz de Bogotá, Bogotá
	0.5	HCTL5	Ecuador	Ondas del Chimborazo, Riobamba
	1	OAX1D	Peru	R. Progreso, Piura
	10/5	CX18	Uruguay	R. Libertad Sport, Montevideo
	10	YVLW	Venezuela	R. América, Valencia
895	0.3	HCGC2	Ecuador	La Voz del Río Guayas, Guayaquil
900	5	LRA11	Argentina	R. Nacional, Comodoro Rivadavia
	10/5	LV7		R. Tucumán, Tucumán
	0.25	CP20	Bolivia	R. El Cóndor, La Paz
	0.25	CP28		R. Cochabamba, Cochabamba
	0.25	CP79		La Voz Nacional, Tarija
	10	ZYI23	Brazil	R. Nordeste, Natal, RN
	10/5	PRB7		R. Tamoio, Rio de Janeiro, GB
	1/0.25	ZYR242		R. Cultura, São José de Rio Prêto, SP
	1/0.25	ZYQ5		R. Dif. Bento Gonçalves, Bento Gonçalves, RS
	1	ZYS77		R. Emis. Santana, Ponta Grossa, PR
	1	CC90	Chile	R. Nuble, Chillán
	10	HJEY	Colombia	La Voz de Cali, Cali
	1.2	HCRJ1	Ecuador	R. Gemas, Quito
	3	HCEV5		R. Splendit, Cuenca
	10	OBX4X	Peru	R. El Sol, Lima
	0.25	CW17	Uruguay	R. Frontera, Artigas
	10	YVMD	Venezuela	R. Mara, Maracaibo
910	50	LR4	Argentina	R. Splendid, Buenos Aires (Lomas del Mirador)
	25	HJDO	Colombia	La Voz del Río Grande, Medellín
	1	HCGR5	Ecuador	R. Mundial, Riobamba
	10	YVRQ	Venezuela	R. Aeropuerto, Maiquetía
914	0.2	HCRU3	Ecuador	Ondas Orenses, Machala
920	10	HJAE	Colombia	EmisorasFuentes, Cartagena (v)
	0.5	HCCM1	Ecuador	R. Colón, Quito
	10	ZP1	Paraguay	R. Nacional, Asunción
	1	OBX1G	Peru	R. Heróica, Chiclayo
	1	OBZ4J		R. Bolognesi, Huancayo
	10	YVQX	Venezuela	R. Nueva Esparta, Porlamar
925	1.5	HCVL2	Ecuador	R. Liberal, Guayaquil
930	0.25	CP11	Bolivia	R. Amauta, La Paz
	0.25	CP112		R. Frontera, Yacuiba
	10	ZYM20	Brazil	R. Liberdade de Sergipe, Aracajú, SE
	5	PRJ3		R. Araguari, Araguari, MG
	1/0.25	ZYU102		R. Aratiba, Aratiba, RS
	1	ZYH3		R. Cultura de São Vicente, São Vicente, SP
	0.5	ZYS25		R. Cultura do Paraná, Curitiba, PR
	10	CB93	Chile	R. Neuvo Mundo, Santiago
	10	HJCS	Colombia	R. Continental, Bogotá
	0.3	HCIM1	Ecuador	La Voz de Imbabura, Ibarra
	5	OAX4E	Peru	R. Central, Lima
	10	CX20	Uruguay	R. Mont-Carlo, Montevideo
	10	YVLJ	Venezuela	R. Maracay, Maracay
935	0.5	HCUE5	Ecuador	R. Unión Evangélica Misionera, Colta
940	50	PRF4	Brazil	R. Journal do Brasil, Rio de Janeiro, GB
	10	HJGB	Colombia	R. Eco, Cali
	0.5	HCMT1	Ecuador	R. Cronos, Quito
	0.5	OBX7L	Peru	R. Wilcamayo, Sicuani
	10	YVNN	Venezuela	R. Punto Fijo, Punto Fijo
945	1	HCDE2	Ecuador	R. Ifesa, Guayaquil
950	100	LR3	Argentina	R. Belgrano, Buenos Aires Aires (Hurlingham)
	10	HJFN	Colombia	La Voz del Café, Pereira
	0.5	HCJM1	Ecuador	R. Un Mundo Meior. Atuntaqui
	1	OAX7F	Peru	R. Nacional del Perú, Puno
	15	YVKG	Venezuela	Ondas Populares, Caracas
	1	YVOO		R. Frontera, San Antonio del Táchira
955	0.25	HCMC2	Ecuador	La Voz de Los Ríos, Babahoyo
960	20/5	LRA6	Argentina	R. Nacional, Mendoza
	25/5	LW8		R. Jujuy, Jujuy
	0.25	CP32	Bolivia	R. Santa Cruz, Santa Cruz
	0.25	CP93		R. Kollasuyo, Potosí
	10	ZYO4	Brazil	R. Dif. de Alagoas, Maceió, AL
	10/5	PRF3		R. Dif. de São Paulo, São Paulo, SP
	1	ZYF5		R. Passo Fundo, Passo Fundo, RS
	5/1			R. Atalaia, Belo Horizonte, MG
	10	CB96	Chile	R. Carrera, Santiago
	10	HJHN	Colombia	R. Sutatenza, Barranquilla
	10	HJHF		R. Nacional, Manizales
	0.4	HCNC1	Ecuador	R. Cosmopolita, Quito (v)
	20	OAX4D	Peru	R. Panamericana, Lima
	10	YVRB	Venezuela	R. Monagas, Maturin
965	0.2	HCOT1	Ecuador	R. Zaracay, Sto. Domingo de los Colorados
970	25/5	LV2	Argentina	R. La Voz de la Libertad, Córdoba
	5	ZYR3	Brazil	R. Soc. Feira de Santana, BA
	1	ZYI26	Brazil	R. Brejuí, Currais Novos, RN
	5/1	XYI2		R. Imembuí, Santa Maria, RS
	1	ZYH21		R. Iracema de Juazeiro, Juazeiro do Norte, CE
	1	ZYS72		R. Dif. de Maringá, Maringá, PR
	1	ZYS6		R. Soc. de Caratinga, Caratinga, MG
	1	CA97	Chile	R. Calama, Calama
	1	CB97		R. Soc. Nacional de Agricultura, Valparaiso
	1	CC97		R. Lautaro, Talca
	1	CD97		R. Patagonia, Coyhaique
	10	HJCI	Colombia	La Voz de la Victor, Bogotá
	0.35	HCMB1	Ecuador	R. Continente, Ibarra
	1.5	ZP9	Paraguay	R. Comuneros, Asunción
	1	CX22	Uruguay	R. Universal, Montevideo
	10	YVLR	Venezuela	R. Central, Maracay
975	10	HCAW2	Ecuador	Ondas del Pacífico, Guayaquil
980	50	PRE8	Brazil	R. Nacional, Rio de Janeiro, GB
	30	HJES	Colombia	R. El Sol, Cali

kHz	kW	Call	Country	Station/Location
980	0.5	HCJI5	Ecuador	R. El Prado, Riobamba
	0.4	OAX2F	Peru	R. La Hora, Trujillo
	10	YVND	Venezuela	R. Servicio, Maracaibo
	10	YVMQ		La Voz del Tigre, El Tigre
985	5	OBX4J	Peru	R. Expreso, Lima
990	50	LR5	Argentina	R. Excelsior, Buenos Aires
	10	HJDB	Colombia	La Voz de Medellín, Medellin
	3	HCGH1	Ecuador	R. Tarqui, Quito
	1	OBZ4R	Peru	La Voz del Valle de Mantaro, Jauja
	10	YVNM	Venezuela	R. Mil, Morón
995	10	HCEW2	Ecuador	R. Suceso, Guayaquil
1000	0.5	CP19	Bolivia	R. Aspiazu, La Paz
	50	PRB9	Brazil	R. Record, São Paulo, SP
	10	YVOB	Venezuela	La Voz del Táchira, San Cristóbal
	10	YVRT		R. Tropical, Caracas
1005	1.5	HCRV5	Ecuador	R. Visión, Cuenca
1010	25/3	LT4	Argentina	R. Misiones, Posadas
	10	LV16		R. Ranquel, Rio Cuarto (later 20kW)
	5	ZYN22	Brazil	R. Bahia, Salvador, BA
	7.5	ZYT26		R. Diário da Manhã, Florianópolis, SC
	2	PRB3		R. Soc. de Juiz de Fora, Juiz de Fora, MG
	0.5	—		R. Clube de Rio Largo, Rio Largo, AL
	0.25	CA101	Chile	R. Coya, Maria Elena
	10	CB101		R. Magallanes, Santiago
	1	CD101		R. Llanquihue, Puerto Montt
	10	HJBN	Colombia	La Voz del Galeras, Pasto (v)
	10	HJCC		Emis. Mil Veinte, Bogotá (v)
	0.7	HCRC4	Ecuador	R. Cenit, Manta
	10	OAX4U	Peru	R. América, Lima
	20	CX24	Uruguay	La Voz del Aire, Montevideo
	10	YVPC	Venezuela	R. Aragua, Cagua
1015	5	HJAI	Colombia	R. Quince, Barranquilla (nom. 1020)
	1	HCRS6	Ecuador	R. Surcos, Guaranda
1020	10/5	LT10	Argentina	R. Univ. del Litoral, Santa Fé
	10	LU21		R. Golfo San Jorge, Santa Cruz
	25	CP4	Bolivia	Emis. del Estado, (R Illimani), La Paz
	5	HJDQ	Colombia	Emis. Claridad, Medellín (v)
	10	HJFQ		La Voz del Pueblo, Pereira
	0.25	HCLV1	Ecuador	R. Capitol, Quito
	5	ZP14	Paraguay	R. Nanduti, Asunción
	10	YVSF	Venezuela	R. Caripito, Caripito
	10	YVRS		R. Margarita, La Asunción
	10	YVMX		R. Calendario, Maracaibo
1025	10	HJER	Colombia	R. Pacifico, Cali (nom. 1030)
1027	0.25	HCTO5	Ecuador	La Voz del Puebio, Riobamba
1030	25/5	LRA15	Argentina	R. Nacional, Tucumán
	25/5	LS10		R. Libertad, Buenos Aires
	10	ZYK27	Brazil	R. Olinda de Pernambuco, Recife, PE
	7.5	PRD8		R. Emis. Continental, Rio de Janeiro, GB
	1	PRB8		R. Rio Prêto, São José do Rio Prêto, SP
	1	CB103	Chile	R. Valentin Letelier, Valparaiso
	0.1	CC103		R. El Roble, Parral
	1	CD103B		R. Chiloé, Castro
	0.1	CD103A		R. Malleco, Victoria
	1	HCRR2	Ecuador	R. Popular Rocafuerte, Guayaquil
	1	OAX8A	Peru	R. Nacional del Perú, Iquitos
	0.25	OAX7N		La Voz del Altiplano, Puno
	1	YVTD	Venezuala	R. Valles del Tuy, Ocumare del Tuy
	10	YVQY		R. Guanare, Guanare
1032	5	HJDJ	Colombia	La Voz de los Libertadores, Duitama (nom. 1030)
1040	50	PRG2	Brazil	R. Tupã, São Paulo, SP
	5	HJCJ	Colombia	R. Melodia, Bogotá
	1	HJGX		R. Progreso de Córdoba, Lorica
	0.7	HCCW1	Ecuador	La Voz del Valle, Mechachi
	10	OBX4O	Peru	R. Onda Popular, Lima (v)
	10	YVON	Venezuela	R. Los Andes, Mérida
	10	YVLB		La Voz de Carabobo, Valencia
1050	1	HJDR	Colombia	La Voz del Triunfo, Medellín
	1	HJNC		La Voz del Nevado, Ibagué
	2.5	HJNG		R. Palmira, Palmira
	5	HCAJ2	Ecuador	Radiodif. del Ecuador, Guayaquil
	20	CX26	Uruguay	S.O.D.R.E., Montevideo
	10	YVKZ	Venezuela	R. Nacional, Caracas
	1	YVNU		R. Caroni, San Félix
1055	10	HJBB	Colombia	R. Valledupar, Valledupar (nom. 1050)
1060	10	PRD2	Brazil	R. Emis. Metropolitana, Rio de Janeiro, GB
	100	CB106	Chile	R. Soc. Nacional de Mineria, Santiago
	10	HJFJ	Colombia	Transm. Caldas, Manizales (v)
	1	HJGU		R. Bucarica, Bucaramanga
	0.7	HCAC6	Ecuador	Ecos del Pueblo, Saquisili
	1	ZP13	Paraguay	R. Boquerón, Alberdi
	1	OAX3U	Peru	R. Horizonte, Tingo María
	1	OBX5D		R. Andahuaylas, Andahuaylas
	1	OCY4D		R. Mil Sesenta, Lima
	1	YVLN	Venezuela	R. Guárico, San Juan de los Morros
	10	YVOE		R. San Cristóbal, San Cristóbal
1065	1.5	HCRV3	Ecuador	R. El Oro, Machala
1070	110	LR1	Argentina	R. El Mundo, Buenos Aires (San Fernando)
	10	HJAH	Colombia	Emis. Atlántico, Barranquilla
	10	HJCG		R. Santa Fé, Bogotá
	0.5	HCVP1	Ecuador	R. Libertad, Quito
	4		Fr. Guina	O.R.T.F, Cayenne
	2	OAX2B	Peru	R. Trujillo, Trujillo
	0.25	OAX5A		R. Centinela, Nazca
	1	YVKW	Venezuela	Emis. Vargas, La Guarira
	1	YVPF		R. Betijoque, Betijoque
1075	0.5	HCGB6	Ecuador	R. Nacional Espejo, Ambato
1080	5	LU16	Argentina	R. Rio Negro, Villa Regina
	10	ZYE28	Brazil	R. Guajará, Belém, PA
	1	ZYI28		Emis. de Educação Rural, Mossoró, RN
	1	ZYK22		R. Dif. de Caruarú, Caruarú, PE
	1/0.5	ZYN24		R. Cultura, Feira de Santana, BA
	1	ZYV47		R. Minas, Belo Horizonte, MG
	1	ZYF41		R. Clube de Patos, Patos de Minas, MG
	1/0.5	ZYE4		R. Soc. de Friburgo, Nôva Friburgo, RJ
	1/0.5	PRD7		R. Clube de Sorocaba, Sorocaba, SP
	2/0.5	ZYU67		R. Dif. da Univ. do Rio Grande do Sul, Pôrto Alegre, RS
	1	ZYX7		R. Teófilo Otoni, Teófilo Otoni, MG
	5	ZYW38		R. Independência, Goiânia, 60
	1	CD108	Chile	R. Camilo Henriquez, Valdivia
	10	HJJB	Colombia	R. Musical, Cali
	10	HJAW		La Voz de Montería, Montería
	5	HCFD2	Ecuador	R. Noticia, Guayaquil
	1	OAX4F	Peru	R. Oficial del Congreso, Lima
	5	OBX1D		R. San Miguel, Piura
	1	OAX7S		R. Salcantay, Cuzco
	1	OAX8N		R. Amazonas, Iquitos
	0.5	OAX3I		R. Tingo María, Tingo Maria
	1	OAX9H		R. Marañón, Chachapoyas
	10	YVQJ	Venezuela	R. Barcelona, Barcelona
1082	10	HJDZ	Colombia	R. Reloj, Medellín (nom. 1070)
1090	25/5	LV5	Argentina	R. Sarmiento, San Juan
	10	CP57	Bolivia	R. Progreso, La Paz
	10	ZYI25	Brazil	Emis. de Educação Rural Natal, RN
	1/0.5	ZYN25		R. Clube de Conquista, Vitória da Conquista, BA
	1/0.5	ZYT9		R. Industrial de Juiz de Fora, Juiz de Fora, MG
	0.5	ZYF7		R. Erechim, Erechim, RS
	1/0.5	PRI2		R. Clube de Marília, Marília, SP
	1/0.25	ZYT38		R. Colon, Joinvile, SC
	1	ZYR240		R. Cultura, Ribeirão Prêto, SP
	1			R. Ministerio da Educação, Rio de Janeiro, GB
	1	CA109A	Chile	R. La Portada Antofagasta
		CA109B		R. Occidente, La Serena
	1	CC109		R. Mineria, Talca
	1	CD109		R. Austral, Punta Arenas
	10	HJBC	Colombia	La Voz de Cúcuta, Cúcuta
	10	HJFM		La Voz de Armenia, Armenia
	1	HJIH		La Voz del Oriente, Sogamoso
	0.35	HCMG1	Ecuador	R. Fantasia, Quito
	15	CX28	Uruguay	R. Imparcial, Montevideo
	10	YVPB	Venezuela	R. Yaracuy, San Felipe
	1	YVNJ		R. Exito, Bachaquero
1095	0.4	HCRR6	Ecuador	R. Rey, Latacunga
1100	50	PRG9	Brazil	R. Nacional, São Paulo, SP

kHz	kW	Call	Country	Station/Location
1100	1	ZYU50	Brazil	R. Emis. de Nordeste, Flôres da Cunha, RS
	1	HJAT	Colombia	R. Reloj, Barranquilla
	10	HJCN		R. Reloj, Bogotá (v)
	1.5	HCRR5	Ecuador	R. Reloj, Cuenca
	0.3	HCEM4		R. Costa Azul, Portoviejo
	1	OAZ4K	Peru	R. Musical, Barranca
	1	OCY4G		R. Sonorama, Huancayo
	1	OBX5G		La Voz de Lucanas, Piquio
	1	OBX7Z		R. Collao, Juliaca
	1	OAX5Z		R. Latinoamericana, Ica
	0.15	OCX4S		R. Imperial, Cañete
	10	YVKE	Venezuela	R. Cultura, Caracas
	10	YVOP		R. Occidente, Tovar
1105	0.5	HCRP6	Ecuador	R. Pelileo, Pelileo
1110	20/5	LR2	Argentina	R. Argentina, Buenos Aires
	10	PRI4	Brazil	R. Tabajara, João Pessôa, PB
	1	ZYV66		R. Planalto de Araguari, Araguari, MG
	5	PRF7		R. Cultura de Campos, Campos, RJ
	1/0.25	ZYS67		R. Tapajóz, São José dos Pinhais, PR
	1/0.25	ZYT25		R. Anita Garibaldi, Florianópolis, SC
	1	—		R. Esmeralda de Minas Gerais, Belo Horizonte, MG
	1	ZYS57		R. Paiquré, Londrina, PR
	1	CB111	Chile	R. Recreo, Viña del Mar
	1.5	CD111		R. Sago, Osorno
	10	HJDI	Colombia	R. Bolivariana, Medellín
	10	HJFZ		La Voz del Centro, Espinal (v)
	1	HJEW		R. Reloj, Cali
	10	YVQT	Venezuela	R. Carúpano, Carúpano
1111	0.5	HCEG1	Ecuador	R. Exito, Quito
1115	0.2	HCLA2		R. América, Guayaquil
1120	10/5	LU7	Argentina	R. General San Martin, Bahía Blanca (cf. 1240)
	10	ZYN20	Brazil	R. Cultura da Bahia, Salvador, BA
	10	—		R. Emis. Continental, Pôrto Alegre, RS
	—	CD112	Chile	R. General Merchant, Puerto Aysén
	10	HJKQ	Colombia	R. Tunja, Tunja
	5	HJGH		R. del Comercio, Bucaramanga (v)
	0.3	HCGM7	Ecuador	R. Rio Amazonas, Macuma
	0.25	HCAO5		La Voz de Tomebamba, Cuenca
	20	OBX4A	Peru	R. Nacional del Perú, Lima
	2.5	CW31	Uruguay	R. Salto, Salto
	10	YVMF	Venezuela	Ondas del Lago, Maracaibo
	1	YVPZ		R. Zaraza, Zaraza
1125	0.3	HCPV6	Ecuador	R. Centro, Ambato
1130	20/5	LU5	Argentina	R. Splendid, Neuquén
	25/5	LV11		R. del Norte, Santiago del Estero
	10	ZYE20	Brazil	R. Marajoara, Belém, PA
	10	PRH8		R. Mauá, Rio de Janeiro, GB
	1	ZYI24		R. Tapuiô, Mossoró, RN
	1	ZYK34		R. Relógio Musical, Recife (Paulista), PE
	1	ZYR67		R. Piratininga, Tupã, SP
	1	ZYR217		R. Cometa, São Paulo, SP
	1	—		R. Atalaia, Aracajú, SE
	1	HJJC	Colombia	R. Cartago, Cartago
	5	HJCO		R. Suramérica, Bogotá
	10	HJAC		Emis. Rio-Mar, Barranquilla (cf. 1135)
	0.3	HCRT1	Ecuador	R. Tricolor, Mira
	2.5	OAX4N	Peru	R. Selecta, Lima
	0.45	OAX7H		R. Puno, Puno
	0.4	OAZ4S		R. Chanchamayo, La Merced
	10/5	CX30	Uruguay	R. Nacional, Montevideo
	1	YVPY	Venezuela	R. Amazonas, Pto. Ayacucho
	1	YVRU		R. Litoral, Naiguatá
1135	10	HJAC	Colombia	Emis. Rio-Mar, Barranquilla (nom. 1130)
1140	50	CB114	Chile	R. Corporación, Santiago
	1	HJDL	Colombia	R. Cristal, Medellín
	1	HJEV		La Voz del Valle, Cali
	5	HJNS		R. Guatapurí, Valledupar
	2	HJTR		R. Girardot, Girardot
	0.25	HCFB2	Ecuador	R. Cóndor, Guayaquil
	1	OCY4C	Peru	R. Centro, Huancayo
	0.5	OAX5W		R. Chichaysuyo, Chincha Alta
	10	YVRN	Venezuela	R. Carora, Carora
1145	1.2	HCRG1	Ecuador	R. Nuevo Mundo, Quito
1150	25/5	LU6	Argentina	R. Atlántica, Mar del Plata
	25/5	LT5		R. Chaco, Resistencia
	1	HJBT	Colombia	R. Catatumbo, Ocaña
	1	HJFI		Pregones del Quindío, Armenia
	1	HJGJ		R. Sutatenza, Belencito
1150	5	HJNH	Colombia	Ondas del Río, Magangué (v)
	2.5	HJBL		Ondas de Ciénaga Grande, Ciénaga
	0.3	HCCZ5	Ecuador	La Voz de Riobamba, Riobamba
	1	YVMV	Venezuela	Ondas del Caribe, Punto Fijo
	1	YVQD		Ecos del Orinoco, Ciudad Bolívar
1155	5	HJAZ	Colombia	Emis. Sinú, Montería (nom. 1160)
1160	10/5	LT3	Argentina	R. Cerealista, Rosario
	0.25	CP25	Bolivia	R. Centenario, Santa Cruz
	0.25	CP78		R. Tunari, Cochabamba
	0.25	CP98		R. Nuevo Mundo, Sucre
	1	ZYG26	Brazil	R. Pioneira de Teresina, Teresina, PI
	1	PRF5		R. Cariri, Campina Grande, PB
	10	PRI9		R. Espírito Santo, Vitória, ES
	1/0.5	ZYH7		R. Pres. Wenceslau, Pres. Wenceslau, SP
	1	PRH3		R. A Voz do Oeste, Cuiabá, MT
	1	ZYS73		R. Clube de Londrina, Londrina, PR
	1	ZYS37		R. Celinauta, Pato Branco, PR
	10	HJCK	Colombia	El Mundo en Bogotá, Bogotá
	5	HJZV		R. Las Lajas, Ipiales
	2	HCVR3	Ecuador	R. Vía, Machala
	5	OAX4C	Peru	R. Once Sesenta, Lima
	1	OAX1K		R. Nacional del Peru, Tumbes
	0.5	OAX3B		R. Huaraz, Huaraz
	0.2	OAX7D		R. Nacional del Perú, Puno
	0.3	OAX2C		R. Libertad, Trujillo
	10	YVSD	Venezuela	R. Turismo, Valera
	10	YVRR		R. Industrial, Guarenas
1165	0.5	HCUE6	Ecuador	R. Runatacuyak, Quevedo
1170	1	ZYI20	Brazil	R. Dif. de Mossoró, Mossoró, RN
	5	PRC9		R. Educ. de Campinas, Campinas, SP
	1/0.25	ZYU38		R. Municipal, Passo Fundo, SP
	1	ZYU72		R. Princesa do Jacuí, Candelária, RS
	1/0.25			R. Nazareth, Belém, PA
	10	HJDP	Colombia	R. Colosal, Neiva
	1	HJDT		R. Nutibara, Medellín
	1	HJJE		Emis. Villa de Céspedes, Tuluá
	1	HCRH4	Ecuador	R. Musical, Bahía de Caráquez
	0.25	HCVJ5		R. Central, Riobamba
	10/5	CX32	Uruguay	R. Sur, Montevideo
	10	YVQV	Venezuela	R. Acarigua, Acarigua
	10	YVSS		R. San Sebastián, San Cristóbal
1175	0.4	HCEA5	Ecuador	Ecos del Azuay, Cuenca
1180	50	PRE3	Brazil	R. Globo, Rio de Janeiro, GB
	50	CB118	Chile	R. Portales, Santiago
	1	HJFX	Colombia	La Voz del Ruiz, Manizales (v)
	10	HJGK		R. Santander, Bucaramanga
	0.5	HCLR1	Ecuador	R. Central, Quito
	10	OCY4Z	Peru	R. Erpa, San Vicente de Cañete
	0.5	OAX3O		R. Huascarán, Huaraz
	10	YVOR	Venezuela	R. Maturín, Maturín
	10	YVMB		La Voz del Zulia, Maracaibo
1190	5	LR9	Argentina	R. Antártida, Buenos Aires
	10/5	LW3		R. Splendid, Tucumán (v)
	5	HJCT	Colombia	La Voz de la Costa, Barranquilla (v)
	10	HJCV		R. Cordillera, Bogotá
	1	HJDF		R. Tumaco, Tumaco
	1	HJEO		Ondas del Valle, Cartago
	0.3	HCBE2	Ecuador	R. Excelsior, Guayaquil
	10	YVRE	Venezuela	R. Barinas, Barinas
1195	0.5	HCCS1	Ecuador	R. Turismo, Sangolqui
1200	25/5	LU3	Argentina	R. del Sur, Bahía Blanca
	5/3	LT6		R. Genaro Berón de Astrada, Goya
	1	CP67	Bolivia	R. Splendid, La Paz
	0.25	CP37		R. Santa Ana, Santa Ana
	10	PRE9	Brazil	Ceará R. Clube, Fortaleza, CE
	10/5	PRB6		R. Emis. de Piratininga, São Paulo, SP
	0.5/1	ZYU91		R. Pampa, Pôrto Alegre, RS
	1	CA120	Chile	R. Blanco Encalada, Tocopilla
	1	CD120		R. Soc. Nacional de Agricultura, Los Angeles
	1	HJCD	Colombia	R. Nueva Epoca, Fusagasugá

kHz	kW	Call	Country	Station/Location
1200	1	HJIJ		R. Colibrí, Medellín
	1	HJNF		R. Mil Doscientos, Sultana del Valle, Cali
	1	HJ . .		Ondas del Atrato, Quibdó
	2	HCRM5	Ecuador	R. El Mercurio, Cuenca
	1.5	ZP11	Paraguay	R. Charitas, Asunción
	2.5	OAX4B	Peru	R. Lima, Lima
	0.5	OAX8M		R. Mariana, Iquitos
	0.3	OAX7B		R. Tawantinsuyo, Cuzco
	1	CX33	Uruguay	Dif. Florida, Florida
	10	YVOZ	Venezuela	R. Tiempo, Caracas
	1	YVNH		Ondas del Escalante, Sta. Bárbara del Zulia
1205	2	HJBX	Colombia	La Voz del Llano, Villavicencio (nom. 1200)
	0.3	HCRQ2	Ecuador	La Voz del Trópico, Quevedo
1210	25/5	LV3	Argentina	R. Cordoba, Córdoba
	1	ZYK23	Brazil	R. Dif. do Garanhuns, Garanhuns, PE
	1/0.5	ZYB2		R. Clube de Varginha, Varginha, MG
	1/0.5	ZYL9		R. Cachoeiro de Itapemirim, Cachociro de Itapemirim, ES
	1/0.5	PRG8		Baurú R. Clube, Baurú, SP
	1/0.25	ZYU101		R. Dif. Sul Riograndense, Erechim, RS
	10	PRL8		R. Nacional de Brasília, Brasília, DF
	1	ZYZ9		R. Emis. Paranaense, Curitiba, PR
	1	ZYX . .		R. Baré, Cuiabá, MT
	1/0.5	ZYU210		R. São Miguel, Uruguaiana, RS
	1	CB121	Chile	R. Univ. Técnica, Santiago
	10	HJFF	Colombia	La Voz Amiga, Pereira (rep. on 1240)
	0.4	HCGU1	Ecuador	R. Ecos, Quito
	1	OAX2Q	Peru	R. Universo, Trujillo
	2	CX34	Uruguay	R. Artigas, Montevideo
	1	YVMN	Venezuela	R. Coro, Coro
	10	YVQZ		La Voz de Anaco, Anaco
1213	10	HJBE	Colombia	R. Internacional, Cúcuta (nom. 1210)
1215	0.2	HCSF5	Ecuador	R. Colegio San Felipe, Riobamba
1220	10	HJFV	Colombia	La Voz del Litoral, Barranquilla
	10	HJAV		R. Cordobesa, Montería (v)
	10	HJKR		R. Juventud, Bogotá
	2.5	HJNM		Emis. Cultural Bolívar, Ipiales
	0.25	HCBJ2	Ecuador	R. El Mundo, Guayaquil
	1	OAX5G	Peru	R. San Pedro, Chincha
	10	YVRD	Venezuela	La Voz de Apure, San Fernando de Apure
1225	0.6	HCJM6	Ecuador	R. Sira, Ambato
1227	10	HJFP	Colombia	R. Neiva, Neiva (nom. 1230)
1230	15/5	LT2	Argentina	R. Splendid, Rosario
	5	HJIL	Colombia	La Voz de las Américas, Medellín
	—	HJJQ		R. Unica, Tunja
	0.22	HCRI1	Ecuador	Centro Radiofónico de Imbabura, Ibarra
	1	OAX2T	Peru	R. Albújar, Guadalupe
	1	OBX4L		R. Luz, Lima
	0.5	OAX7J		R. Madre de Dios, Puerto Maldonado
	0.4	OBZ4Y		R. Selecciones, Tarma
	1	YVOH	Venezuela	R. Valera, Valera
	10	YVNT		R. Barlavento, Caucagua
1235	1	HJLK	Colombia	R. Calidad, Cali (nom. 1230)
	0.2	HCMV5	Ecuador	La Voz del Austro, Cuenca
1240	10/5	LU10	Argentina	R. Azul, Azul
	5	ZYB21	Brazil	R. Dif. do Amazonas, Manaus, AM
	5	ZYK36		R. Capibaribe do Recife, Recife, PE
	1	PRB5		R. Clube Hertz, Franca,SP
	1/0.25	ZYR84		R. Pres. Prudente, Pres. Prudente, SP
	0.5	—		R. Independência, Guarabira, PB
	1/0.5	ZYP4		R. Dif. de Guarapuava, Guarapuava, PR
	0.25	ZYR257		R. Municipalista, Botocatú, SP
	10	ZYT43		R. Cultura de Joinville, Joinville, SC
	1	ZYU76		R. Tupanci, Pelotas, RS
	1/0.5	ZYC4		R. Soc. Ubaense, Ubá, MG
	1	CA124	Chile	R. del Salitre, Iquique
	1	CB124		R. Viña del Mar, Viña del Mar
	1	CC124		R. Talca, Talca
	5	HJFG	Colombia	La Voz del Comercio, Armenia (v)
	5	HJGN		R. Barrancabermeja, Barrancabermeja
	0.5	HCLA5	Ecuador	R. Riobamba, Riobamba

kHz	kW	Call	Country	Station/Location
1240	2.5	CW35	Uruguay	R. Paysandú, Paysandú
	1	YVLO	Venezuela	La Voz de la Victoria, La Victoria
1243	5/1	PRE6	Brazil	R. Alvorada de Brasília, Brasília, DF (nom. 1240)
1245	1	HCFA1	Ecuador	R. Metropolitana, Quito
1250	5/2	LT17	Argentina	R. Prov. de Misiones, Posadas
	5	LV13		R. Granaderos Puntanos, San Luís (cf. 580)
	25/5	LRA16		R. Nacional, La Quiaca
	1	CP14	Bolivia	Emis. Unidas, La Paz
	0.25	CP54		R. La Plata, Sucre
	0.25	CP47		R. Cobija, Cobija
	0.25	CP17		R. Sararenda, Camiri
	0.25	CP16		R. Los Andes, Tarija
	0.25	CP53		R. Indoamérica, Potosí
	0.25	CP69		R. Nacional, Cochabamba
	0.25	CP65		R. Oruro, Oruro
	0.25	CP100		R. Ibaré, Trinidad
	0.25	CP26		R. Amboro, Santa Cruz
	1	PRJ2	Brazil	R. Clube Pontagrossense, Ponta Grossa, PR
	1	ZYO3		R. Chavantes, Ipamerí, GO
	1	ZYL4		R. Platina, Ituiutaba, MG
	1	ZYY20		R. Dif. de Guaporé, Pôrto Velho, RD
	1	ZYK26		R. Dif. de Limoeiro, Limoeiro, PE
	1	CA125	Chile	R. La Serena, La Serena
	1	CB125		R. Andrés Bello, Santiago
	1	CD125		R. Univ. Técnica, Valdivia
	1	HJAO	Colombia	Emis. A.B.C., Barranquilla (v)
	1	HJCA		R. Guadaira, Bogotá
	1	HJEM		La Voz de Corozal, Corozal
	1	HJHZ		Emis. Mariana, Pasto
	2.5	HJHS		R. Reloj, Cúcutta
	1	HCRB2	Ecuador	La Voz del Litoral, Guayaquil
	1	OAX8P	Peru	R. Pucallpa, Pucallpa
	5	OAX4L		R. Miraflores, Lima
	0.35	OAX6D		R. Nacional del Perú, Tacna
	3.1	CX36	Uruguay	Broadc. Centenario, Montevideo
	10	YVPZ	Venezuela	R. Puerto Ordaz, Pto. Ordaz
	1	YVML		R. Cabimas, Cabimas
1255	0.2	HCEM1	Ecuador	Ondas Carchenses, Tulcán
1260	5/2.5	LT9	Argentina	R. Santa Fé, Santa Fé
	10/5	PRA5	Brazil	R. São Paulo, São Paulo, SP
	5	ZYL21		R. Gazeta de Alagoas, Maceió, AL
	1/0.25	ZYS79		R. Atalaia de Londrina, Londrina, PR
	1/0.25	ZYX27		R. Educação Rural, Campo Grande, MT
	10	ZYG		R. Clube do Piauí, Teresina, PI
	1/0.25	ZYV65		R. Ibituruna, Gov. Valadares, MG
	1	ZYR263		R. Independência, São José do Rio Prêto, SP
	1	CC126	Chile	R. Condell, Curicó
	10	CA126		R. El Morro, Arica
	1	HJDA	Colombia	Emis. Siglo Veinte, Medellín
	1	HJDV		R. Cacique, Ibagué
	2	HJET		R. Quince, Cali
	1	HJHU		R. Morgan, Isla de San Andrés
	1	HJNO		R. Duitama, Duitama
	1	HJOH		La Voz del César, Valledupar
	0.35	HCWN1	Ecuador	La Voz del Triunfo, Sto. Domingo de los Colorados
	1/0.25	CW37	Uruguay	Dif. Rochense, Rocha
	1	YVRY	Venezuela	R. Nirgua, Nirgua
1265	5/1	ZYU44	Brazil	R. Clube Metrópole, Pôrto Alegre, RS (nom. 1270)
	0.25	HCJE5	Ecuador	Ondas Azuayas, Cuenca
1270	30/5	LS11	Argentina	R. Prov. de Buenos Aires, La Plata
	0.25	CP55	Bolivia	R. Univ, Oruro
	1	ZYB5	Brazil	R. Potí, Natal, RN
	1	ZYV62		R. Carijós, Conselheiro Lafaiete, MG
	10	ZYX9		R. Brasil Central, Goiânia, GO
	1	—		R. Alvorada de Parintins, Parintins, AM
	1	ZYS23		R. Cultura de Maringá, Maringá, PR
	1	ZYR39		R. Brasil, Campinas, SP
	1	CA127	Chile	R. Norte, Antofagasta
	10	CB127		R. Soc. Nacional de Minería, Viña del Mar
	1	HJKZ	Colombia	Onda Libre, Pereira
	1	HJTX		R. Quince, Girón
	1	HJAR		La Voz de Cartagena, Cartagena

kHz	kW	Call	Country	Station/Location
1270	1	HJEB	Colombia	La Voz de Ciénaga, Ciénaga
	5	HCUM2	Ecuador	R. Universal, Guayquil
	1	OBZ7G	Peru	Ondas del Titicaca, Puno
	1	OAX8T		R. El Eco, Iquitos
	1	OAZ4H		R. Huacho, Huacho
	0.5	OAX1H		R. Grau, Piura
	1	OAX9F		R. Nor Peruana, Chachapoyas
	1	OBZ4T		R. La Merced, La Merced
	0.15	OAX5B		R. Ica, Ica
	1	YVOU	Venezuela	Ondas Panamericanas, El Vigia
	1	YVTR		R. Tucupita, Tucupita
1280	50	PRG3	Brazil	R. Tupi, Rio de Janeiro, GB
	1	HJLR	Colombia	R. Pasto, Pasto
	10	HJKN		R. Metropolitana, Bogotá (v)
	0.35	HCAB1	Ecuador	La Voz de la Democracia, Quito
	10	OBZ4K	Peru	R. Noticias, Lima
	10	YVSQ	Venezuela	R. Nacional, San Fernando de Apure
	1	YVNB		La Voz de la Sierra, Churuguara
1285	1	HJNQ	Colombia	La Voz del Rio Suárez, Barbosa (nom. 1280)
	0.5	HCVN4	Ecuador	La Voz del Sur de Manabi, Jipijapa
1290	1	HJCM	Colombia	R. Sur, Pitalito
	1	HJIA		R. Villavicencio, Villavicencio
	1	HJKY		Ondas del Puerto, Girardot
	1	HJTH		R. Ritmos, Medellin
	1	HJHI		La Voz de Garagóa, Garagóa
	1	HJOI		Ondas de Maicao, Maicao
	0.5	HCJA5	Ecuador	La Voz del Rio Tarqui, Cuenca
	1	CX38	Uruguay	S.O.D.R.E., Montevideo
	1	YVLF	Venezuela	R. Puerto Cabello, Pto. Cabello
1292	1	HJEC	Colombia	R. Libertador, Cali (nom. 1290)
1295	0.3	HCMS1	Ecuador	R. Mariscal Sucre, San Isidro
	0.2	HCVM6		R. Once de Noviembre, Latacunga
1300	3/1.5	LT11	Argentina	R. Splendid, Concepción del Uruguay
	10/1.5	LU13		R. Necochea, Necochea
	1	CP68	Bolivia	R. San Rafael, Cochabamba
	0.25	CP51		R. Loyola, Sucre
	10/5	ZYR7	Brazil	R. Iracema de Fortaleza, Fortaleza, CE
	10/5	PRE4		R. Cultura de Sá Paulo, Sáo Paulo, SP
	1	ZYV76		R. Cancela, Ituiutaba, MG
	1/0.25	ZYR264		R. Cinqüentenário, Birigui, SP
	1	ZYX25		R. Cultura de Cuiabá, Cuiabá, MT
	5	ZYS87		R. Atalaia de Maringá, Maringá, PR
	10	CB130	Chile	R. Pres. Balmaceda, Santiago
	1	HJLD	Colombia	Emis. Rio San Eugenio, Santa Rosa de Cabal
	1	HJNB		R. Quince, Bucaramanga
	1	HJDG		Transm. Rio, Monteria (nom. 1310)
	1	HJOG		La Voz de las Antillas, Cartagena
	1	HCDC2	Ecuador	R. Cenit, Guayaquil
	1	OAX1I	Peru	R. Lambayeque, Chiclayo
	1	OAZ4B		R. Andina, Huancayo
	1	OAX4M		R. Atalaya, Lima
	1	OAZB		R. Monterreal, Pucallpa
	1	OAX7P		Onda Imperial, Cuzco
	0.4	OAX6P		R. Latina, Tacna
	0.3	OAX7X		R. Juliaca, Juliaca
	10	YVKH	Venezuela	R. Crono Radar, Petare
	1	YVNS		R. Reloj, Maracaibo
1305	1.5	ZP10	Paraguay	R. Paraguay, Asunción (nom. 1300)
1308	1	HJIR	Colombia	La Voz de Urabá, Turbo (Apartado) (nom. 1300)
1310	5	LRA5	Argentina	R. Nacional, Rosario
	1	HJJZ	Colombia	R. Quince, Bogotá
	0.4	HCGB1	Ecuador	R. Nacional Espejo, Quito
	1	YVPG	Venezuela	R. Tinaquillo, Tinaquillo
1315	2.5	HJAK	Colombia	La Voz de la Patria, Barranquilla (nom. 1310)
	0.25	HCLP3	Ecuador	La Voz de El Oro, Pasaje
1318	1	HJTA	Colombia	La Voz de la Independencia, Medellin (nom. 1320)
1320	10	—	Brazil	A Voz da Amazônia, Manaus, AM
	1	—		R. Cultura de Piauí, Teresina, PI
	1	ZYL25		R. Progresso de Alagôas, Maceió, AL
1320	10	ZYZ34	Brazil	R. Rio de Janeiro, Rio de Janeiro, GB
	1	ZYR201		R. Dirceu de Marilia, Marília, SP
	5	ZYS68		R. Cruzeiro do Sul, Curitiba, PR
	1/0.5	ZYT31		R. Herval d'Oeste, Herval d'Oeste, SC
	1	PRH4		R. Cultura, Pelotas, RS
	5	ZYG3	*	R. Clube de Goiânia, Goiânia, GO
	0.25	CA132	Chile	R. Estrella del Norte, Vallenar
	10	CC132		R. Simón Bolivar, Concepción
	1	HJFR	Colombia	Ondas del Huila, Neiva
	1	HJHT		R. Furatena, Chiquinquirá
	1	HJNK		R. Luna, Palmira
	1	HJVT		La Voz del Tocarema, Girardot
	1	HCJD6	Ecuador	R. Continental, Ambato
	10	OAX4I	Peru	R. La Cronica, Lima
	1	OAX1F		R. Talara, Talara
	0.5/0.1	CW39	Uruguay	La Voz de Paysandú, Paysandú
	5	YVSG	Venezuela	R. Colonial, El Tocuyo
1322	1	HJHY	Colombia	Transm. Sucre, Sincelejo (nom. 1340)
1325	0.2	HCFR2	Ecuador	R. Guayaquil, Babahoyo
1328	1	HJAD	Colombia	R. Vigía, Cartagena (nom. 1330)
1330	10/2.5	LT14	Argentina	R. General Urquiza, Paraná
	0.25	CP45	Bolivia	R. Cultura, Cochabamba
	0.25	CP36		R. Mercurio, Oruro
	0.25	CP106		R. Trinidad, Trinidad
	10	ZYE25	Brazil	R. Liberal, Belém, PA
	1	PRI8		R. Cultura de Araçatuba, Araçatuba, SP
	1/0.5	ZYV33		R. Diamantinense, Diamentina, MG
	1			R. Jornal do Comércio, Triunfo, PE
	1/0.5	ZY15		Soc. Educ. de Itajubá, Itajubá, MG
	1	ZYR41		R. Cacique, São Caetano do Sul, SP
	1/0.25	ZYV59		R. Operária de Araxá, Araxá, MG
	1	ZYR55		R. Cacique de Santos, Santos, SP
	1/0.5	PRC4		R. Clube de Blumenau, Blumenau, SC
	1	—		R. Veneza Brasileira, Recife, PE
	2	CB133	Chile	R. Prat, Santiago
	1	CC133		R. La Discusión, Chillán
	1	CD133		R. Vicente Pérez Rosales, Pto. Montt
	0.45	HCLW5	Ecuador	R. Monumental, Cuenca
	1	ZP19	Paraguay	R. Nuevo Mundo, Nuevo Mundo
	1	CX40	Uruguay	R. Fénix, Montevideo
	1	YVOV	Venezuela	R. Los Llanos, Calabozo
1334	1	ZYX2	Brazil	R. Arapuãn, João Pessôa, PB (nom. 1340)
1335	0.3	HCPX1	Ecuador	R. Victoria, Quito
1337	5	HJFE	Colombia	La Voz de Pereira, Pereira (nom. 1330)
1340	2	LU19	Argentina	La Voz del Comahué, Cipolletti
	0.25	LU11		Radioem. del Oeste, Trenque Lauquen
	0.25	CP24	Bolivia	R. Grigotá, Santa Cruz (rep. on 1345)
	1	ZYF25	Brazil	R. Gurupi, São Luiz, MA
	1	—		Ceará R. Clube, Pinheiro, MA
	25/5	PRH6		R. Guaraní, Belo Horizonte, MG
	1/0.25	ZYX5		R. Soc. Oeste Catarinense, Chapecó, SC
	0.25	CA134	Chile	T. Toco, Tocopilla
	1	CB134		R. Porteña, Valparaiso
	1	HJFA	Colombia	R. Regalas, Barranquilla
	1	HJFB		R. Calidad, Bogotá
	1	HJNA		R. Nariño, Pasto
	2	HCOF4	Ecuador	La Voz de Chone, Chone
	1	OAX9C	Peru	R. Tropical, Tarapoto
	0.5	OBX7X		R. Urubamba, Urubamba
	1	OAX1E		R. Chiclayo, Chiclayo
	0.1	OAX6Y		R. San Felipe, Parroquia de Garumas
	1	OBX1K		R. San Francisco, Piura
	0.5	OAX6L		R. El Misti, Arequipa
	0.5	OAX5D		R. Chincha, Chincha
	0.5	OAX5H		R. Ayacucho, Ayacucho
	0.5	OAX4Q		R. Jauja, Jauja
	0.2	OAZ4M		R. Huaral, Huaral
	2.5/1	CW53	Uruguay	La Voz de Melo, Melo

kHz	kW	Call	Country	Station/Location
1340	1	YVQU	Venezuela	R. San Carlos, San Carlos
1342	1	HJBF	Colombia	La Voz del Norte, Cúcuta (nom. 1340)
1345	3	HCPB6	Ecuador	R. Paz y Bien, Ambato
1346	1	HJMQ	Colombia	La Voz de Chicamocha, Piedecuesta (nom. 1330)
1350	20/5	LS6	Argentina	R. América, Buenos Aires
	1	CP82	Bolivia	R. Electra, Potosí
	5	CP98		R. Topater, Cochabamba
	1	CP29		R. Fides, La Paz
	2	ZYO7	Brazil	R. Borborema, Campina Grande, PB
	5/1	ZYN35		R. Dif. Sul da Bahia, Itabuna, BA
	5	PRH5		R. Cultura de Poços de Caldas, Poços de Caldas, MG
	1/0.25	ZYR251		R. Metropolitana Paulista, Mogi das Cruzes, SP
	1/0.25	ZYU85		R. Guarantã, Santa Maria, RS
	1/0.25	..		R. Estadual, Canoinhas, SC
	1	ZYO26		R. Dif. do Mimoso do Sul, Mimoso do Sul, ES
	1	—		R. Progresso de Juazeiro, Juazeiro do Norte, CE
	1	—		R. Educ. Coronel Fabriciano, MG
	1	CB135	Chile	R. Panamericana, Santiago
		CC135		R. Imperial, Temuco
	1	CD135C		La Voz del Sur, Punta Arenas
	1	CD135B		R. Pudeto, Ancud
	1	HJDS	Colombia	La Voz de la Candelaria, Medellín
	1	HJEN		R. La Fabulosa, Cali
	1	HJHL		R. Industrial, Ibagué
	1	HJFY		La Voz de Chaparral, Chaparral
	1	HJIG		Ondas del Meta, Villavicencio
	0.3	HCPV2	Ecuador	R. Reloj, Guayaquil
	0.3	HCPZ1		R. Rumichaca, Tulcán
	1	OAX3N	Peru	Ondas de Huallaga, Huánuco
1354	1	HJHW	Colombia	Ecos del Río, Puerto Boyacá (nom. 1350)
1360	0.25	LV17	Argentina	R. Municipal de Córdoba, Córdoba
	25	ZYH25	Brazil	R. Uirapurú, Fortaleza, CE
	10	PRC8		R. Guanabara, Rio de Janeiro, GB
	5	ZYR90		R. Cultura de Fernandópolis,
	1	ZYU82		R. Alvorada de Maraú, Maraú, RS
	1	—		R. Educ. de Piracicaba, Piracicaba, SP
	5	ZYS86		R. Independência do Paraná, Curitiba, PR
	10	CC136	Chile	R. Univ. de Concepción, Concepción
	1	CA136		R. Riquelme, Coquimbo
	1	HJBO	Colombia	R. Piloto, Barranquilla
	1	HJFH		La Voz de Anserma, Anserma
	1	HJNI		R. Sabanas, Sincelejo
	1	ZP6	Paraguay	R. Guaraní, Villarrica
	1	OAX4Y	Peru	R. Excelsior, Lima
	0.35	OAX7R		R. Sicuani, Sicuani
	5	CW41	Uruguay	Broadc. San José, San José
	1	YVNG	Venezuela	R. Lagunillas, Lagunillas
1362	1	HJJA	Colombia	R. Buenaventura, Buenaventura (nom. 1240)
1365	1	HJGI		Emis. José A. Galán, Socorro (nom. 1360)
1370	0.25	LV18	Argentina	R. Municipal de San Rafael, San Rafael
	1	ZYQ3	Brazil	R. Dif. de Teresina, Terisina, PI
	10	ZYK31		R. Continental, Recife, PE
	1	—		R. Urubupunga, Andradina, SP
	1	ZYO22		R. Capixaba, Vitória, ES
	0.5	ZYX4		R. Cultura de Campo Grande, Campo Grande, MT
	1/0.5	PRD4		R. Cultura de Araraquara, Araraquara, SP
	1	ZYW21		R. Anhanguera, Goiânia, GO
	5	ZYF3		R. Caxias do Sul, Caxias do Sul, RS
	1	ZYR212		R. Industrial Paulista, São Paulo, SP
	1	HJBD	Colombia	R. Guaimaral, Cúcuta
	1	HJKX		R. Mundial, Bogotá (Zipaquirá)
	0.25	HCHA2	Ecuador	La Voz del Río Quevedo, Quevedo
	1	OBX4V	Peru	R. Junín, Huancayo
	1	OAX1G		R. Tumbes, Tumbes
	0.5	OAZ4O		R. Exito, Huacho
	0.5	OAX8G		R. Sargento Lores, Iquitos
1370	0.5	OAX5I	Peru	R. Abancay, Abancay
	0.5	OAX5F		R. Huancavelica, Huancavelica
	0.5	OAX2D		R. Cajamarca, Cajamarca
	2.5	CX42	Uruguay	R. del Pueblo, Montevideo
	1	YVLO	Venezuela	R. Dif. la Pascua, Valle de la Pascua
1372	1	HJEA	Colombia	La Voz del Cauca, Popayán (nom. 1370)
1375	1	HCJR6	Ecuador	La Voz del Colegio Mera, Ambato
	0.5	HCVM2		La Voz del Milagro, El Milagro
1380	50	CB138	Chile	R. Cruz del Sur, Santiago
	1	HJEJ	Colombia	Armonías del Palmar, Palmira
	1	HJLG		La Voz de la Dorada, La Dorada
	1	HJKD		Armonías del Sur, Neiva
	1	HJNU		R. Santa Bárbara, Sta. Bárbara
	0.5	OBX5C	Peru	R. El Pueblo, Ica
	1	OAX2W		R. Atahualpa, Cajamarca
	1	YVOW	Venezuela	R. Boconó, Boconó
1382	1	OAX3H	Peru	R. Interamericana, Chimbote (v) (nom. 1370)
1385	0.5	HCJN1	Ecuador	R. El Tiempo, Quito
1388	0.25	CW45	Uruguay	Dif. Treinta y Tres, (nom. 1390)
1390	5/2.5	LR11	Argentina	R. Univ. de La Plata, La Plata
	1	CP3	Bolivia	R. Nacional, La Paz (later 10kW)
	1	CP113		R. Villazón, Villazón
	1	ZYK25	Brazil	R. Dif. de Pesqueira, Pesqueira, PE
	1	PRE5		R. Soc. Triângulo Mineiro, Uberaba, MG
	1/0.5	ZYJ2		R. Sul Fluminense, Barra Mansa, RJ
	1	ZYU75		R. Pôrto Alegre, Pôrto Alegre, RS
	2	ZYV49		R. Jornal de Minas, Belo Horizonte, MG
	1	—		R. Jornal, Itapetininga, BA
	1	ZYS46		R. Tingui, Curitiba, PR
	1	HJFO	Colombia	R. Luz, Manizales
	1	HJNY		R. Pipatón, Barrancabermeja
	0.3	HCCV5	Ecuador	La Voz de los Cuatro Rios, Cuenca
1395	1	HJTJ	Colombia	La Voz de Cereté, Cereté (nom. 1400)
	1	HCVE4	Ecuador	La Voz de Esmeraldas, Esmeraldas
1400	5	ZYH30	Brazil	R. Educ. de Cariri, Crato, CE
	10	PRD5		R. Roquete Pinto, Rio de Janeiro, GB
	1	PRK6		R. Dif. Poços de Caldas, Poços de Caldas, MG
	1/0.25	ZYR224		R. Dif. Riopretense, São José do Rio Prêto, SP
	5	ZYS76		R. Cruzeiro do Sul de Londrina, Londrina, PR
	1			R. Emis. Cultural, Rio do Sul, SC
	0.25	CA140	Chile	R. Atacama, Copiapó
	1	CC140		R. Araucania, Concepción
	1	HJAS	Colombia	R. Variedades, Barranquilla
	1	HJBK		La Voz de la Gran Colombia, Cúcuta
	1	HJJJ		R. Ipiales, Ipiales
	0.25	HJKM		Emis. Mariana Bogotá
	0.2	HCFL2	Ecuador	R. Continental, Guayaquil
	0.3	HCBS4		R. Tropical, Manta
	2.5	OBX4W	Peru	R. Callao, Callao
	1	OAX2O		R. Perú, Chepén
	0.5	OAZ4P		R. San Juan, Tarma
	0.2	OAX6J		R. Landa, Arequipa
	0.45	OAX7I		R. La Hora, Cuzco
	10/5	CX140	Uruguay	R. Zorilla de San Martín, Tacuarembó
	1	YVSS	Venezuela	R. Compás, El Sombrero
1410	1	ZYF21	Brazil	R. Ribamar, São Luiz, MA
	1	—		R. Educ. São José, Macapá, AM
	10	ZYH26		R. Verdes Mares, Fortaleza, CE
	25/10	PRE7		R. América, São Paulo, SP
	1	CB141	Chile	R. Valparaiso, Valparaiso
	0.1	CD141		R. Loncoche, Loncoche
	1	HJBY	Colombia	Ondas del Ortegualza, Florencia (v)
	1	HJEI		Emis. Guadalajara, Buga
	0.5	HJDU		Emis. Cultural, Medellín
	1	HJFS		Ondas del Gualí, Honda
	1	HCMJ1	Ecuador	Emis. Gran Colombia, Quito
	5	CX44	Uruguay	R. Austral, Montevideo
	1	YVNY	Venezuela	Radiodif. Oriental, Güiria

kHz	kW	Call	Country	Station/Location
1410	5	YVST	Venezuela	R. Turén, Turén
1412	1	HJHM	Colombia	La Voz de Calarcá, Calarcá (nom. 1410)
1420	1	CP49	Bolivia	R. Centro, Cochabamba
	1	ZY14	Brazil	R. Imbiara de Araxá, Araxá, MG
	5/2.5	ZYJ7		R. Guarujá, Florianópolis,SC
	1	ZYU93		R. Triunfo, Pôrto Alegre, RS
	1	—		R. Colonial, Panambí, RS
	0.1	CA142	Chile	R. Alonso de Ercilla, Illapel
	1	CB142		R. Nacional, Santiago
	0.25	CC142		R. Maule, Cauquenes
	1	HJAP	Colombia	R. Bahía, Cartagena
	1	HJHK		R. Reloj, Manizales
	0.3	HCCV6	Ecuador	La Voz de Salcedo, Salcedo
	0.2	HCRM4		R. Visión, Manta
	0.2	HCJC1		R. Atuntaqui, Atuntaqui
	1.5	OAX6S	Perú	R. Toquepala, Tacna
	1	OCX7C		R. Collasuyo, Juliaca
	1	OBZ4G		R. San Isidro, Lima
	1	OAX8Z		R. Oriente, Yurimaguas
	0.5	OBX1H		R. Catacaos, Catacaos
	0.4	OBX5H		R. Apurímac, Abancay
	1/0.5	CW43	Uruguay	R. Lavalleja, Minas
	0.25	CW133		La Voz de Artigas, Artigas
	1	YVOF	Venezuela	R. Trujillo, Trujillo
1428	1	HJBH	Colombia	R. Magdalena, Santa Marta (nom. 1430)
1430	0.25	LU23	Argentina	R. El Turbio, El Turbio
	0.25	LT23		R. San Genaro Norte, San Genaro Norte
	0.25	LU17		R. Golfo Nuevo, Puerto Madryn
	1	ZYG21	Brazil	R. Clube de Teresina, Teresina, PI
	1	ZYM21		R. Jornal de Sergipe, Aracajú, SE
	10	PRE2		R. Vera Cruz, Rio de Janeiro,GB
	1	CC143	Chile	R. El Libertador, Rancagua
	1	CD143		R. Eleutario Ramírez, Osorno
	1	HJBP	Colombia	R. Pamplona, Pamplona
	1	HJBZ		Ondas de Riohacha, Riohacha
	1	HJEG		La Voz de Belalcázar, Popayán
	1	HJKU		La Voz de María, Bogotá
	0.2	HCBX1	Ecuador	R. Casa de la Cultura, Quito
	1	ZP3	Paraguay	R. Teleco, Asunción
	0.5	OAZ4V	Peru	R. Universal, Huancayo
	1	CW25	Uruguay	R. Durazno, Durazno
1440	0.25	LU15	Argentina	R. Viedma, Viedma
	0.5	CP104	Bolivia	R. Oriente, Camiri
	0.25	CP107		R. Yaguari, Vallegrande
	0.25	CP . .		R. Batallón Colorados, La Paz
	20/5	PRB2	Brazil	R. Clube Paranaense, Curitiba, PR
	1	ZYV29		R. Acaiaca, Belo Horizonte,MG
	10	PRF6		R. Baré, Manaus, AM
		CB144	Chile	R. Sargento Candelaria, Santiago
	1	HJFL	Colombia	Ondas de Ibagué, Ibagué
	1	HJEK		R. Tuluá, Tuluá
	1	HJIB		La Voz de Caquetá, Florencia
	1	HJNZ		Armonías del Ingruma, Riosucio
	2	HCOV5	Ecuador	Ondas del Volante, Azogues
	0.6	HCDF1		La Voz del Norte, Ibarra
	0.25	HCJN4		Cooperativista de El Carmen, El Carmen
	1	OCX4X	Peru	R. Continente, Lima
	1	OAX6R		R. El Tiempo, Arequipa
	1	YVFR	Venezuela	R. Orituco, Altagracia de Orituco
1445	1	HJGM	Colombia	R. Sogamoso, Sogamoso (nom. 1440)
	0.2	HCSC5	Ecuador	La Voz del Chofer, Riobamba
	1	YVOJ	Venezuela	R. Univ., Mérida (v) (nom. 1450)
1450	1	CP61	Bolivia	R. Emisoras Bolivia, Oruro
1450	10	PRC5	Brazil	R. Clube do Pará, Belém, PA
	1	ZYJ20		R. Caturité, Campina Grande, PB
	5	PRB4		R. Clube de Santos, Santos,SP
	1/0.25	ZYR249		R. Assunção de Jales, Jales,SP
	5	ZYP36		Campos Dif. Campos, RJ
	1/0.25	ZYT21		R. Coroados, Curitibanos,SC
	0.25	CB145	Chile	R. Univ. Técnica Sta. María, Valparaiso
	0.25	CD145A		R. Arauco, Angol
	2.5	CD145B		R. Turismo, Puerto Varas
	1	HJNL	Colombia	R. Sintonía, Villa María
	1	HJTY		La Voz del Carare, Vélez
	0.25	HCAQ2	Ecuador	R. Nueva Ortiz, Guayaquil
	5/2.5	CX46	Uruguay	R. América, Montevideo
1460	0.25	LW2	Argentina	R. Emis. Tartagal, Tartagal

kHz	kW	Call	Country	Station/Location
1460	1	ZYH22	Brazil	R. Iracema de Sobral, Sobral, CE
	2	PRF2		R. Clube de Rio Claro, Rio Claro, SP
	1	ZYV21		R. Educ. do Rio Doce, Gov. Valadares, MG
	0.5	ZYC6		R. Charrua, Uruguaiana, RS
	1	CA146	Chile	R. Antofagasta, Antofagasta
	1	CB146		R. Yungay, Santiago
	—	CC146		R. Talcahuano, Talcahuano
	1	HJAL	Colombia	R. Sincelejo, Sincelejo
	1	HJBA		La Voz de Pamplona, Pamplona
	1	HJBQ		R. Fundación, Fundación
	1	HJJW		Nuevo Continente, Bogotá
	0.25	HCGM1	Ecuador	R. Reloj, Quito
	1	OAX1V	Peru	La Voz de Chira, Sullana
	1	OAX7W		R. El Sol de los Andes, Juliaca
	2.5	OAX5K		R. Internacional, Pisco
	0.5	OCY41		R. Imperial, Junín
	1	OBX1N		R. Chimú, Chimbote
	1	OAX3W		R. Chimú, Huaraz
	0.25	OAX3C		R. Huánuco, Huánuco
	0.25	CW46B	Uruguay	Liceo de Dolores, Dolores, Soriano
1462	1	HJZU	Colombia	La Voz de la Amistad, Pasto (nom. 1460)
1465	0.2	HCET4	Ecuador	R. El Triunfo, Esmeraldas
1470	0.25	LV19	Argentina	R. Municipal de Malargüe, Malargüe
	0.25	LT13		R. Oberá, Oberá
	1	CP8	Bolivia	R. Nueva América, La Paz
	1	ZYK22	Brazil	R. Liberdade de Caruarú, Caruarú, PE
	1	ZYZ6		R. Espinharas de Patos, Patos, PB
	1/0.5	ZYD2		R. Soc. Muriaé, Muriaé, MG
	0.5	PRJ4		R. Educ. de Parnaíba, Parnaíba, PI
	1/0.5	PRC6		R. Dif. Brasileira, Uberlândia, MG
	1	ZYE29		R. Emis. de Educação Rural, Santarém, BA
	1	ZYE3		R. Emis. Convenção de Itú, Itú, SP
	1	ZYN3		R. Progresso, Novo Hamburgo, RS
	1	—		R. Cultura, Volta Redonda,RJ
	1	—		R. Clube Epitácio, Pres. Epitácio, SP
	1	CB147	Chile	R. Sargento Aldea, San Antonio
	1	HJIM	Colombia	R. Ya, Medellín
	1	HJBM		La Voz de Honda, Honda
	0.36	HCEC1	Ecuador	Ecos del Cayambe, Cayambe
	1	OCX4D	Peru	R. Huancayo, Huancayo
	0.15	OAX7G		R. Cuzco, Cuzco
	0.45	OAX8H		R. La Hora, Iquitos
	1/0.5	CX147	Uruguay	R. Montevideo, Montevideo
1475	1	HJNT	Colombia	La Voz del Paraíso, Cerrito (nom. 1470)
	0.22	HCEJ3	Ecuador	Ecos del Jambelí, Pto. Bolívar
	0.5	OCX4P	Peru	R. Pasco, Cerro de Pasco (nom. 1490)
1480	1	ZYB20	Brazil	R. Rio-Mar, Manaus, AM
	1	—		R. Tupinambá, Dionisio Cerqueira, SC
	1.5	ZYH20		R. Araripe, Crato, CE
	5	PRD3		Petrópolis, R. Dif, Petrópolis, RJ
	0.5	ZYJ3		R. Carajá, Anápolis, GO
	0.25	CC148	Chile	R. Regional, Curicó
	1	CD148		R. Baquedano, Valdivia
	1	HJDH	Colombia	R. Quibdó, Quibdó
	1	HJFC		R. Centinela, Pereira (v)
	1	HJTZ		R. Palonegro, Bucaramanga (Lebrija)
	1	HJEH		R. Sutatenza, Pasto (inactive)
	1	HJCL		R. Garzón, Garzón (nom. 1500)
	3	HCJV4	Ecuador	La Voz de Jipijapa, Jipijapa
	1	HCRM6		R. Musical, Ambato
	1	OBX4E	Peru	R. Inca del Perú, Lima
	1	CW43B	Uruguay	R. Internacional, Rivera
1485	0.5	OAX6K	Peru	La Voz del Sur, Tacna, (nom. 1470)
1490	5	PRJ9	Brazil	R. Timbira, São Luiz, MA
	1	ZYP29		Emis. Continental de Campos, Campos, RJ
	2	ZYA2		R. Dif. Matogrossense, Corumbá, MT
	1/0.25	ZYU38		R Municipal de Passo Fundo, Passo Fundo, RS
	0.5	ZYT52		R. Dif. de Criciuma, Criciuma, SC
	1	ZYR66		R. Dif. Sertãozinho,

kHz	kW	Call	Country	Station/Location
1490	1	CB149	Chile	R. La Verdad, Santiago
	1	HJBS	Colombia	R. SanDiego, Bogotá
	1	HJAY		R. Cumbia, Barranquilla (Galapa)
	1	HCMQ1	Ecuador	R. Atahualpa, Quito
	1	OAX8J	Peru	R. Atlántida, Iquitos
	0.25	OAX1L		R. Imperio, Chiclayo
	—	HJTQ		R. Tosajero, Cúcuta
	5	OAX6Q		R. Sur Peruana, Arequipa
	0.25	OAX5L		R. Consejo Prov. de Abancay, Abancay
	0.3	OAX5N		R. Nazca, Nazca
	2	CX48	Uruguay	R. Femenina, Montevideo
1495	2	HCHG2	Ecuador	R. Central, Vinces
1496	0.4	HCWN5		R. Puruña, Riobamba
1500	10	CA150	Chile	R. Patricio Lynch, Iquique
	0.5	CB150		R. Sudamérica, Santiago
	1	HJGA	Colombia	R. Boyacá, Tunja
	1	HJLJ		R. Calima, Darien
	1	HJTW		R. Sumapaz, Fusagasugá
	1	HJZH		La Voz Katia, Medellín (Envigado)
	1	HCRO1	Ecuador	R. Otavalo, Otavalo
	10	OBX41	Peru	R. Santa Rosa, Lima
	1	OAX61		R. Moquegua, Moquegua
1505	1	HJHX	Colombia	La Voz Panamericana, Bucaramanga (v) (nom. 1510)
1510	0.25	LW4	Argentina	R. Orán (later 10kW)
	0.25	LU18		R. El Valle, General Roca
	0.25	CP1	Bolivia	R. Chuquisaca, La Paz
	0.25	CP101		R. Suipacha, Villazón
	0.25	CP80		R. Litoral, Cochabamba
	0.25	CP102		R. 27 de Diciembre, Villa Montes
	1	ZYY5		R. Repórter, Ijuí, RS
	1	ZYU46		Soc. A Voz de Bagé, Bagé, RS
	1	ZYG20		R. Dif. de Floriano, Floriano, PI
	1	CC151	Chile	R. Rancagua, Rancagua
	1	HJZA	Colombia	R. Estrella, Armenia
	0.5	HCPC2	Ecuador	R. El Tiempo, Guayaquil
	1	OAX2L	Peru	R. Sudamericana, Pacasmayo
	1	OAX6M		R. Univ, Arequipa
	1	OBX1M		R. Chulucanas, Chulucanas
	0.3	OCX4V		R. Fessa, Cañete
	0.1	OCX4J		R. Tarma, Tarma
	0.1	CW47B	Uruguay	R. Berna, Nueva Helvecia
1515	2.5	HJLQ	Colombia	R. Minuto, Barranquilla (nom. 1520)
1520	0.1	LT21	Argentina	R. Municipal de Alvear, Alvear
	1	CC152	Chile	R. Soberanía, Linares
	5	HJLI	Colombia	R. Latina, Bogotá
	1	HJLS		R. Popayán, Popayán
	1.2	HCVR1	Ecuador	R. Cordillera, Quito
	1	OAX8D	Peru	R. Loreto, Iquitos
	0.5	OAZ4D		R. Minería, La Oroya
	1	OAX1C		R. Délcar, Chiclayo
	0.25	OBX7U		R. Maldonado, Pto. Maldonado
	2/0.25	CX152	Uruguay	R. Cerro Largo, Melo
1523	5	OBX4D	Peru	R. Reloj, Lima (nom. 1520)
1530	0.25	CP111	Bolivia	R. Ballivián, San Borja
	1	ZYA9	Brazil	R. Dif. de Assís, Assís, SP
	1	ZYS2		R. Jaguariaiva, Jaguariaiva, PR
	1	ZYW5		R. Independência, São Bernardo do Campo, SP
	1	CB153	Chile	R. Chacabuco, Quillota
	1	CC153		R. El Carbón, Lota
	1	HJJB	Colombia	R. Sevilla, Sevilla
	1	HJLE		R. Armero, Armero
	0.25	HJDN		Liceo Departamental, Sonsón
	0.35	HJGD		Reina de Colombia, Chiquinquirá
	0.2	HCVU2	Ecuador	La Voz de Urdaneta, Ricaurte
	0.21	HCOC5		Ondas Cañaris, Azogues
	1	OBZ4S	Peru	R. Nueva Voz del Centro, El Tambo
	1.25	CX50	Uruguay	R. Independencia, Montevideo
	1	CV153		R. Rincón, Fray Bentos
1535	1	HJHD	Colombia	La Voz del Petróleo, Barrancabermeja (nom. 1540)
	0.5	HCMH6	Ecuador	Org. Radiof. del Cotopaxi, Latacunga
1540	1	ZYM9		R. Bragança Paulista, SP
	1	ZYT21		R. Sulina, Capinzal, SC
	0.25	CC154	Chile	R. Centenario, San Javier
	0.25	HJZF	Colombia	Emis. Mariana, Manizales
	—	HJMB		R. Sur Oeste, Concordia
	0.5	HCIE1	Ecuador	R. Cotacachi, Cotocachi
	0.25	HCOS4		La Voz del Rio Carrizal, Calceta
	1	OBX1B	Peru	La Voz de la Frontera,
1540	0.3	OBX4N	Peru	R. Corporación, Cerro de Pasco
	0.5	OAX2Y		R. Heróica, Trujillo
	0.15	OAZ4N		R. San Pedro, Mala
1545	1	HJBV	Colombia	R. Canoa, Turbaco (nom. 1540, v. 1540–1550)
	0.3	HCDJ1	Ecuador	R. Visión, Quito
1550	0.25	LT19	Argentina	R. Municipal, Santo Tomé
	0.25	LT18		R. Eldorado, Eldorado
	1	CP50	Bolivia	R. Pio XII, Siglo Veinte
	0.5	CP83		R. Norte, Montero
	0.5	ZYT3	Brazil	R. Araranguá, Araranguá, SC
	0.1	CB155	Chile	R. Provincial, Putaendo
	0.25	CC155		R. Manuel Rodriguez, San Fernando
	0.25	CD155		R. Regional, Traiguén
	1	HJLT	Colombia	Ecos del Quilichao, Santander
	1	HJZI		R. Fantasía, Bogotá
	1	HJAX		R. Corp. Barraza, Pto. Colombia
	0.5	HCEJ6	Ecuador	R. Cosmopolita, Ambato
1552	1	HJGY	Colombia	R. Magangué, Magangué (nom. 1550)
1555	1	HJLP	Colombia	R. Espacial, Tuluá (nom. 1560)
	0.5	HCTR3	Ecuador	La Vox del Guabo, El Guabo
1560	1	ZYK30	Brazil	R. Cultura do Nordeste, Caruarú, PE
	1/0.25	ZYN33		R. Educ. de Santo Amaro, Santo Amaro, BA
	0.1	CB156	Chile	R. Limache, Limache
	0.1	CC156		R. Central, San Carlos
	0.1	CD156		R. Jerónimo de Alderete, Villarrica
	1	HJCP	Colombia	R. Parroquial, Nemocón
	1	HJGP		R. Sutatenza, Sutatenza
	1	HJKG		R. Cundinamarca, Tocaima
	0.25	HJZX		R. Copacabana, Medellín
	0.35	HCCS2	Ecuador	Centro Radiofónico Sideral, Daule
	0.25	HCVI5		La Voz de Ingapirca, Cañar
	5	HC..4		R. Sensación, Quinindé
	10	OCX4F	Peru	R. Mundo, Huancayo
	0.35	OAX7U		R. Universidad, Cuzco
	1	OAX2X		R. Primervera, Trujillo
	1	CX156	Uruguay	R. Americana, Trinidad
	0.5	CW51		R. Maldonado, Maldonado
	0.7	CV156		R. Vichadero, Vichadero
1570	1	ZYH5	Brazil	R. Clube de Tupã, Tupã, SP
	0.25	CB157	Chile	R. Transandina, Los Andes
	1	HJZT	Colombia	R. Sensación, Manizales
	1	HJHE		Voces Rovirenses, San José de Miranda
	0.35	HCAP1	Ecuador	R. Marañón, Quito
	1	OAX7Y	Peru	Prelatura Nullius, Sicuani
	1	OBZ4V		R. Universal, Huacho
	1	CX157	Uruguay	R. Canelones, Canelones
	0.25	CW52		R. Litoral, Fray Bentos
	0.1	CV157		Dif. del Norte, Bella Unión
1576	1	HJLC	Colombia	La Voz del Banco, El Banco (nom. 1580)
1580	—	HJKF	Colombia	Armonias Zipaquireñas, Zipaquirá
	0.3	HCA16	Ecuador	La Voz de los Llanganates, Pillaro
	0.2	HCRJ4		R. Juventud, Manabí
	0.15	OAX5M	Peru	R. Villa Rica, Huancavelica
	0.5	OBX7Q		R. Triunfo, San Blas
	1	OAX3M		R. Regional, Chimbote
	0.25	CW54	Uruguay	Emis. del Este, Minas
	0.1	CV158		R. Rivera, Rivera
1590	1	ZYV73	Brazil	R. Congonhas, Congonhas, MG
	0.25	CB159	Chile	R. Aconcagua, San Felipe
	0.25	CC159		R. Rengo, Rengo
	1	HJIP	Colombia	La Voz de la Música, Medellín
	1	HJJQ		R. Zarzal, Zarzal
	5	OAZ4Z	Peru	R. Agricultura, Lima
	1	OCX4T		R. Cultural La Merced, Huancayo
	0.25	CX159	Uruguay	Emis. Real de San Carlos, Colonia
1595	1	HJJH	Colombia	R.Ciudad Milagro, Armenia (nom. 1600)
	0.3	HCQ1	Ecuador	R. Quero, Quero
1600	1	ZYA5		R. Dif. de Jainville, Jainville, CS
	—	CB160B	Chile	R. Reloj, Valparaiso
	0.25	CB160A		R. Cronos, Santiago
	—	CC160A		R. Horario, Concepción
	0.25	CC160B		R. Talca, Talca
	0.4	HCFM2	Ecuador	R. Consular, El Empalme
	1	CX160	Uruguay	R. Rio Branco, Rio Branco
	0.25	CW56		Dif. Soriano, Mercedes
	0.1	CV160		R. San Carlos, San Carlos

SHORT WAVE STATIONS OF THE WORLD

compiled by Tor-Henrik Ekblom

***Standard Frequency Station. †Time Signal Station. Ang. = Angola, Br. = Brazil, Cl. = Cultura, Col. = Columbia, Czecho. = Czechoslovakia, Ger. = Germany, Guat. = Guatemala, Hon. = Honduras, Osl. = Island, Venez. = Venezuela, L.V. = La Voz.**

kHz	m	kW	Call	Stations & Countries
2160	139.4	0.25	XEVJ	Chipancingo, Mexico
2200	136.4			Foochon, China
2312	129.8	2.5	YDB	Djakarta, Indonesia
2326	129.0	20		Paradys, So. Africa
2340	128.4			Foochon, China
	128.4	0.1	TGRW	S. Cruz Barillas, Guatemala
	128.4	0.5	ZYV30	R. Dif. Brasileira, Brazil
	128.4	1	YVPL	R. Nueva Esparta, Venezuela
2346	127.7	20		Paradys, So. Africa
2350	127.6			Tsinan, China
	127.6	1	YDJ3	Jogjakarta, Indonesia
	127.6	1	TGSC	La Voz de Candelaria, Guat.
	127.6	1	ZYB	R. Dif. Itacoatiara, Brazil
	127.6	1	YVPH	R. Guárico, Venezuela
2360	127.1	10		Lusaka, Zambia
	127.1	0.5	TGBA	R. Maya, Guatemala
	127.1	0.25		R. Dif. Parintins, Brazil
	127.1	1		R. Cult. do Nordeste, Brazil
	127.1	0.5	YVQG	R. Carúpano, Venezuela
2370	126.6	1	YDI3	Surabaja, Indonesia
	126.6	1	YVQP	R. Puerto La Cruz, Venezuela
2376	126.3	20		Paradys, So. Africa
2380	126.0	0.35	XESE	México City, México
	126.0	0.25	ZYE78	R. Educ. Limeira, Brazil
2390	125.5	7.5	YDN	Kotaradja, Indonesia
	125.5	1/0.3	YDA6	Tjirebon, Indonesia
	125.5	0.5	ZYV71	R. Mundo Melhor, Brazil
2400	125.0	0.1		R. Mossoró, Brazil
	125.0	0.5		R. Dif. Amparo, Brazil
	125.0	1		R. Educ. S. José, Brazil
2410	124.5	0.25	VL9CG	R. Goroka, New Guinea
	124.5	0.25	4VU	R. Lumière, Haiti
	124.5	1		R. Em. Educ. Rural, Brazil
	124.5	1		R. Sirena, Brazil
2415	124.2			Wenchow, China
2420	124.0	0.25	YDA2	Bandung, Indonesia
	124.0	0.25	YDU7	Singaradja, Indonesia
	124.0	0.5	ZYV32	R. Carajá, Brazil
	124.0	0.25		R. Carolina, Brazil
	124.0	0.5		R. São Carlos, Brazil
	R124.0	0.5	HCIW5	R. El Mercurio, Ecuador
2430	123.5			Fukien, China
	123.5	0.06		Malang, Indonesia
	123.5	1	YDK	Palembang, Indonesia
	123.5	0.2	HCEM3	R. El Progreso, Ecuador
	123.5	1	YVPM	Esc. Radiofónicas, Venezuela
2437	123.1	0.6/10	YDG4	Surakarta, Indonesia
2440	122.9	1	YVLG	R. Girardot, Venezuela
2442	122.8	1		Tel Aviv, Israel
2446	122.7	4		St. Denis, Réunion
2448	122.5	1	YDG3	Surakarta, Indonesia
2450	122.5	0.25	VL9CH	R. Mt. Hagen, New Guinea
	122.5	0.25	4VSO	R. 4VEH, Haiti
	122.5	0.5	ZYR231	Cultura de Aracatuba, Brazil
	122.5	1	YVOX	R. Los Llanos, Venezuela
2455	122.2	10		Lusaka, Zambia
2460	121.9	2	YDB	Djakarta, Indonesia
2470	121.5	1	HLK23	Chunchon, Korea
	121.5	0.5	ZYR99	R. Cacique, Brazil
	121.5	1	HCJX6	R. Cult. Religious, Ecuador
	121.5	0.2	4VNI	R. Carora, Venezuela
2475	121.2			Hangchow, China
2480	121.0	1	YDL	Padang, Indonesia
	121.0	1	ZYR—	R. Bragança, Brazil
	121.0	1	YVPD	R. Tiempo, Venezuela
2490	120.5	0.3	YDQ	Makassar, Indonesia
	120.5	0.1	YDH	Semarang, Indonesia
	120.5	0.45	HCHW2	R. Rey, Ecuador
*2500	120.0	1	OMA	Praha, Czechoslovakia
*	120.0	5	FFH	Bagneux, France
*	120.0	0.5	MSF	Teddington, Gt. Britain
*	120.0	2	JJY	Tokyo, Japan
*	120.0	1	WWVH	Puunene, Hawaii
*	120.0	0.3	ZLFS	Lower Hutt, New Zealand
*	120.0	2.5	WWH	Fort Collins, USA
2510	119.5	10	HLK50	Seoul, Korea
2600	115.4			Fukien, China
†2614	114.5	10	DAM	Elmshorn, Germany
†	114.8	2	DAN	Norddeich, Germany
2635	113.9	0.3		Seoul (VUNC), Korea
2690	111.5			Harbin, China
†2775	108.1	10	DAM	Elmshorn, Germany
†	108.1	2	DAO	Kiel, Germany
2800	107.1	20/240		R. Peking, China
	107.1			Fukien, China
2850	105.3	120/240		Pyongyang, Korea
†3170	94.06	8	OLB5	Praha, Czechoslovakia
3200	93.75	20/240		R. Peking, China
	93.75			Fukien, China
3202	93.69	2		Bangkok, Thailand
3204	93.64	10		Ibadan (NBC), Nigeria
3205	93.60	10		AIR Lucknow, India
	93.60	10	YDA1	Bandung, Indonesia
	93.60	1	YVRV	R. Litoral, Venezuela
3210	93.44	0.25		Quelimane, Moçambique
3215	93.30	3.5	BED59	Taipei (BCC), Taiwan
	93.30	1	YVOE	Ondas Panamericanas, Venez.
3218	93.22	25		R. Clube de Moçambique
3220	93.17	20/240		R. Peking, China
	93.17	1.5	HCRE1	R. Nacional Espejo, Ecuador
3222	93.10	4/100		Lomé, Togo
3223	93.09	2.5		AIR Simla, India
	93.09	1	YDV5	Mataram, Indonesia
3225	93.05	10		R. St. ELWA, Liberia
3230	93.00	1.5	BED31	Taipei (BCC), Taiwan
	93.00	10	VRH8	Suva, Fiji Islands
	93.00	0.4	OBX7D	R. El Sol, Peru
3232	92.82	1.5		R. Brazzaville, Congo
	92.82	30		Tananarive, Malagasy Rep.
	92.82	0.3	YDM	Bukittinggi, Indonesia
3235	92.74	10		AIR Gauhati, India
	92.74	0.25	VL8AS	R. Milne Bay, New Guinea
	92.74	1	YVKV	Emis. Vargas, Venezuela
	R92.74	1	YVOL	La Voz del Tigre, Venezuela
3238	92.65			Urumchi, China
3240	92.59	0.3		Beira, Mozambique
	92.59	50		Baghdad, Iraq
	92.59	0.2	HCJH1	R. Turismo, Ecuador
	92.59	1	OBX4U	R. América, Peru
	92.59	0.075		R. Nickerie, Surinam
3241	92.56	1	YDR3	Ambon, Indonesia
	92.56	1	YDM	Sibolga, Indonesia
3242	92.54	25		Abidjan, Ivory Coast
3245	92.45			Chengtu, China
	92.45	0.25	VL8BK	R. Kerema, New Guinea
	92.45	1	ZYL23	R. Educ. Palmares, Brazil
	92.45	0.2	HCLM5	R.24 de Junio, Ecuador
	92.45	1	YVKT	R. Libertador, Venezuela
3250	92.31	0.25	CR6RF	R. Clube de Benguela, Angola
	92.31	1.5		St. Denis, Réunion
	92.31	20		Paradys, So. Africa
	92.31	1	YDO	Bandjarmasin, Indonesia
	92.31	1	OCX7D	R. Collasuyo, Peru
	92.31	0.4	OAZ4G	L. La Oroya, Peru
3251	92.28	5		R. Tanzania, Tanzania
3255	92.16	10	ELBC	Liberian Bc. Corp, Liberia
	92.16	0.5	HIMP	R. Ocoa, Dom. Rep.
	92.16	1	ZYH35	R. Assunção, Brazil
	92.16	0.5	ZYN62	R. Clube de Marillia, Brazil
	92.16	1	YVQL	La Voz del Tigre, Venequela
3259	92.05	5	YDV	Kupang, Indonesia
3260	92.02	4		R. Niger, Niger
	92.02			Kweiyang, China
3264	91.90	25		R. TV Congolaise, Congo
3265	91.87	25		R. Clube de Moçambique
	91.87	0.25	ZK6	R. Rarotonga, Cook Islands
	91.87	1	HIRM	R. Sol, Dom. Rep.
	91.87	4	ZYR92	R. Ribeirão Preto, Brazil
	91.87	1	ZYK21	R. Tamandaré, Brazil
	91.87	2	ZFY	R. Demerara, Guiana
	91.87	0.2	HCMZ6	La Voz del Dorado, Ecuador
	91.87	1	YVOC	R. Nirgua, Venezuela
3268	91.78	1		R. Timor, Timor
3270	91.75	4		R. Dahomey, Dahomey
	91.75	20/240		R. Peking, China
3272	91.69	0.25	CR6RP	R. Cl. do Cuanza Sul, Ang.
3275	91.60	1	ZYR31	R. Clube Baurú, Brazil
	91.60	0.2	HCVU2	La Voz de Urdaneta, Ecuador
	91.60	1	YVMC	R. Mara, Venezuela
3277	91.55	1		R. Kashmir, India
	91.55	7.5	YDD	Djakarta, Indonesia
	91.55	1	YJB3	Port Vila, New Hebrides
	91.55	0.3	DYB4	Dumaguete City, Philippines
3280	91.40	5		Grenada, Windward Islands
	91.40	1	OBX1E	R. San Miguel, Peru
3284	91.35	10	VRM9	Suva, Fiji Isalnds
3285	91.32	10		Lubumbashi, Congo Dem. R.
	91.32	20		Paradys, So. Africa
	91.32	1		Emiss. Educ. Rural, Brazil
	91.32	1	YVLE	R. Puerto Cabello, Venezuela
3286	91.26	1	YDG6	Madiun, Indonesia
	91.26	2.5	DUB4	Philipp. Bc. Sce, Philippines
3288	91.24	30		Tananarive, Malagasy Rep.
3290	91.19	20/240		R. Peking, China
	91.19	0.5	OBZ4E	R. Universal, Peru
3295	91.05	10		Bujumbura, Burundi
	91.05	20.10		Lusaka, Zambia
	91.05	10	VUB	AIR Bombay, India
	9..05	10/100	VUD	AIR Delhi, India
	91.05	5	YDV	Kupang, Indonesia

kHz	m	kW	Call	Stations & Countries
3295	91.05	7.5	YDY2	Samarinda, Indonesia
	91.05	1	ZYM22	R. Cult. Sergipe, Brazil
	91.05	1	ZYX28	R. Educ. Rural, Brazil
	91.05	1	ZYV75	R. Educ. de Uberlandia, Br.
	91.05	1	YVOG	R. Trujillo, Venezuela
3300	90.91	4		R. Gabon, Gabon
	90.91	1		Belize, Honduras (Br)
	90.91	0.45	OBX4Y	R. Junin, Peru
3305	90.77			Benghazi, Libya
	90.77	10	VUC	AIR Calcutta, India
	90.77	10	VL8BD	R. West. District, Papua
	90.77	1	DZCA	NCDAF, Philippines
	90.77	1	YVKX	La Voz de la Patria, Venez.
3306	90.73	10		Gwelo, Rhodesia
3308	90.70	1.5	HCHA2	Ondas Quevedañas, Ecuador
3310	90.63	0.25		Quelimane, Moçambique
3315	90.50	10		AIR Bhopal, India
	90.50	1	YDI6	Djember, Indonesia
	90.50	4		R. Martinique, Martinique
	90.50	1	ZYL21	R. Gazeta de Alagoas, Brazil
	90.50	0.25	ZYV63	R. Itatiaia, Brazil
	90.50	1	YVLI	R. Maracay, Venezuela
3316	90.46	5/10		Freetown, Sierra Leone
3320	90.34	20		Paradys, So. Africa
	90.34	1.5	HCHA2	Ondas Quevedeñas, Ecuador
	90.34	1	OBZ4I	R. Erpa, Peru
3322	90.30	2	VL9BA	R. Bouganville, No. Solomon (Isl.)
3325	90.23	1	YDZ7	Palankaraya, Indonesia
	90.23	10	8FW34	Sukarnopura, Indonesia
	90.23	1	ZYJ21	R. Borborema, Brazil
	90.23	0.1	ZYR220	R. Dif. Guarulhas, Brazil
	90.23	0.5	OAX3P	R. Tingo, Maria, Peru
	90.23	5	YVRA	R. Monagas, Venezuela
3326	90.20	7.5		Kaduna (NBC), Nigeria
3330	90.09	1	CR6RS	R. Clube do Lobito, Angola
	90.09	3	CHU	Dominion Observatory, Can.
	90.09	0.5	OAX3Q	R. Ondas de Huallaga, Peru
	90.09	10	OAX1M	R. Progreso, Peru
3331	90.06	4		Moroni, Comoro Islands
	90.06	15		Malé, Maldive Islands
3335	89.95	1	YDN2	Kotaradja, Indonesia
	89.95	10	VL9CD	R. Wewak, Papua
	89.95	10	BED20	Taipei (BCC), Taiwan
	89.95	1		R. Capibaribe, Brazil
	89.95	1	ZYE24	R. Marajoará, Brazil
	89.95	0.5	ZYR59	Vóz do Sertão, Brazil
	88.95	1	OBX7K	R. La Convención, Peru
3336	89.95	4		Ziguinchor, Sénégal
3338	89.97	10		R. Clube de Moçambique
3339	89.85	10		R. Tanzania, Zanzibar
3340	89.81	3/8		Kampala, Uganda
	89.81	10	HCVA4	La Estación de la Alegria, Ec.
3345	89.68	2		R. Kashmir, India
	89.68	10	YDW1	Pontianak, Indonesia
	89.68	1	YD120	Sumenep, Indonesia
	89.68	1	DZB2	Call of the Orient, Philipp.
	89.68	1	HIAS	Onda Musical, Dom. Rep.
	89.68	1		R. Alvorada, Brazil
	89.68	1	YVPE	R. Central, Venezuela
3346	89.68	120		Lusaka, Zambia
3350	89.55	4		Franceville, Gabon
	89.55	20		Ejura, Ghana
	89.55			Urumchi, China
	89.55	1	CP103	R. 27 de Diciembre, Bolivia
	89.55	1	OAX5J	R. Independencia, Peru
3355	89.42	10		Nampula, Moçambique
	89.42	10		AIR Hyderabad, India
	89.42	10		AIR Kurseong, India
	89.42	4		R. Nouméa, New Caledonia
	89.42	0.25	HIBD	La Voz Romana, Dom. Rep.
	89.42	0.2	HCDR4	R. Miramar, Ecuador
	89.42	0.3	OBX4Z	R. Luz, Peru
	89.42	1	YVLC	R. Valencia, Venezuela
3356	89.40	10	ZND	Gaberones, Botswana
3360	89.29	20/240		R. Peking, China
	89.29	1	TGVN	La Voz Nahualá, Guatemala
	89.29	0.5	OAX3D	R. Huánuco, Peru
3365	89.15			Lanchow, China
	89.15	10/100	VUD	AIR Delhi, India
	89.15	0.5	8FW5	Manokwari, Indonesia
	89.15	1	HIRL	R. Exitos, Dom. Rep.
	89.15	1	YVPM	R. Tovar, Venezuela
3366	89.12	10		Accra, Ghana
	89.12	0.25		Nampula, Moçambique
3370	89.02	4		R. Université, Malagasy Rep.
	89.02	0.5	CP85	R. Universidád, Bolivia
3372	88.96	0.25	HCDY4	R. Iris, Ecuador
	R88.96	10	HCVA4	La Estacion Alegria, Ecuador
3373	88.94	10		R. Clube de Moçambique
3375	88.89	10	CR6RZ	Emiss. Oficial, Angola
	88.89	10		AIR Gauhati, India
	88.89	1	YDK7	Djambi, Indonesia
	88.89	1	HIAD	R. San Juan, Dom. Rep.
	88.89	1	ZYK28	R. Olinda Pernambuco, Br.
	88.89	1	YVMI	La Voz de la Fé, Venezuela
3376	88.86	50		Conakry, Guinea
3378	88.81	0.25	HCDY4	R. Iris, Ecuador
3380	88.76	10		Blantyre, Malawi
3380	88.76	18		R. Mali, Mali
	88.76	10		Ibadan (WNBS), Nigeria
	88.76	1	TGCH	R. Esc. Radiof, Guatemala
	88.76	1	OAX1O	R. Chiclayo, Peru
3385	88.63	50		Conakry, Guinea
	88.63	10		Colombo, Ceylon
	88.63	0.5		Kupang, Indonesia
	88.63	10	VL9BR	R. Rabaul, New Guinea
	88.63	0.5		R. Clube Teresina, Brazil
	88.63	0.5	ZYS45	R. Dif. do Paraná, Brazil
	88.63	1	HIDA	R. Hit Musical, Dom. Rep.
	88.63	4		Cayenne, Fr. Guiana
	88.63	1	OBZ4M	La Voz del Valle, Peru
	88.63	1	YVQI	R. Barcelona, Venezuela
3390	88.50	120/240		R. Peking, China
	R88.50	1	YDK7	Djambi, Indonesia
	88.50	0.25	CP89	R. Santa Ana, Bolivia
	88.50	0.2	HCOT1	R. Zaracay, Ecuador
	88.50	0.3	OCX4R	R. Industrial, Peru
3395	88.37	1	YDP2	Medan, Indonesia
	88.37	0.5	8FW50	Biak, Indonesia
	88.37	1	HIAZ	R. Santiago, Dom. Rep.
	88.37			R. Dif. Goiania, Brazil
	88.37	1		R. Tapuyo de Mossoró, Br.
	88.37	0.35	PZX4	R. Suriname, Surinam
	88.37	1	YVOK	R. Universidád, Venezuela
3396	88.34	20		Gwelo, Rhodesia
3400	88.24			Fukien, China
3435	R87.34	0.5	OAX3Q	Ondas de Huallaga, Peru
3445	87.08	0.15		Purwokerto, Indonesia
3448	87.00	0.75		Purwokerto, Indonesia
3450	86.96	120/240		R. Peking, China
3465	86.58	1		Pakanbaru, Indonesia
3500	85.71	20/240		R. Peking, China
3515	85.35	0.2	HCKD5	R. Centro Gualaceo, Ecuador
3520	85.23	0.2	HCCY4	R. Escuelas Radiales, Ecuad.
3535	84.87			Fukien, China
3570	84.03	0.5	HCOS4	L V del Rio Carrizal, Ecuad.
3615	82.99	0.4	HCGS6	R. Pillaro, Ecuador
3660	81.97	20/240		R. Peking, China
3704	80.99	1	CR6RD	Nova Lisboa, Angola
3740	80.21	0.75	CR6RM	Moçamedes, Angola
3755	79.90	0.4	HCBH6	R. Latacunga, Ecuador
3795	79.05	20/240		R. Peking, China
3815	78.64	20/240		R. Peking, China
	78.64	0.3	HCPZ1	R. Rumichaca, Ecuador
3824	78.46	0.1	7PA22	Maseru, Lesotho
3830	78.33	20/240		R. Peking, China
3835	78.23	0.35	HCWN1	LV del Triunfo, Ecuador
3865	77.60	20/240		R. Peking, China
3875	77.41	1		Bogor, Indonesia
3880	77.32	20/240		R. Peking, China
3883	77.25	5	CR4AA	R. Cl. Cabo Verde
3900	76.92	20/240		R. Peking, China
	76.92			Fukien, China
	76.92			Hailar, Inner Mongolia
3905	76.83			Benghazi, Libya
	76.83	20/240		R. Peking, China
	76.83	10/100	VUD	AIR Delhi, India
	76.83	0.5	YJB4	Port Vila, New Hebrides
3910	76.73	1	CR4AC	R. Barlavento, Cape Verde
	76.73	10/1		Tokyo (FEN), Japan
	76.73	5	HLK51	Seoul, Korea
3915	76.64	20/240		R. Peking, China
	76.64	0.3	YDZ	Ternate, Indonesia
	76.64	7.5		BBC Tebrau, Malaysia
3920	76.53	20/240		R. Peking, China
3925	76.43	10/100	VUD	AIR Delhi, India
	76.43	50	JOZ	Tokyo, Japan
	76.43	10	VLK3	Port Moresby, Australia
3930	76.34			Chifeng, Inner Mongolia
	76.34			Huhehot, Inner Mongolia
3935	76.24	5	YDH2	Semarang, Indonesia
3940	76.15	20/240		R. Peking, China
3945	76.05	1	YDU2	Denpassar, Indonesia
	76.05	0.3	YDZ2	Ternate, Indonesia
	76.05	10	JOZ4/5	Sapporo/Tokyo, Japan
	76.05	0.5	DXB3	Cotabato, Philippines
3950	75.95			Sining, China
3952	75.90	15/100		BBC London, Gt. Britain
	75.90	20		Paradys, So. Africa
3958	75.78	0.5		Stanley, Falkland Islands
3960	75.76	5		R. Pax, Moçcambique
	75.76	20/240		R. Peking, China
	75.76			Urumchi, China
	75.76	0.8		Kendari, Indonesia
	75.76	10	YDL2	Padang, Indonesia
	75.76	100		Baghdad, Iraq
3965	75.66	20		Paradys, So. Africa
3970	75.57	1	CR6SG	R. Clube Haila, Angola
	75.57	8		R. Buea, Cameroon
	75.57			Huhehot, Inner Mongolia
3972	75.52	25		Ulan Bator, Mongolia
3975	75.47	15/100		BBC London, Gt. Britain
	75.47	0.25	CR6RF	R. Cl. de Benguela, Angola
	75.47	10/2	YDI1/2	Surabaja, Indonesia
	75.47	0.6	HCSN6	R. Sira, Ecuador
3980	75.38	8		Munich (VOA), Germany
	75.38	15		Baku, USSR

kHz	m	kW	Call	Stations & Countries
3980	75.38	10		Enugu (NBC) Nigeria
	75.38	20/240		R. Peking, China
3985	75.28	250		Schwarzenburg, Switzerland
	75.28	0.5	9UZ22	R. Cordac, Burundi
	75.28	0.25	8FW6	Merauke, Indonesia
	75.28	0.2		Seoul (VUNC), Korea
	75.28	1	HCER5	Esc. Radiofónicas Pop, Ec.
3986	75.27	100		Lagos (NBC), Nigeria
3990	75.19	20		R. Liberty, Germany
	75.19	50		Monrovia (VOA), Liberia
	75.19	20/240		R. Perking, China
	75.19	1		AFNT, Taiwan
3995	75.09	5		R. Budapest, Hungary
	75.09	5		R. Roma, Italy
	75.09	5	VQO4	Solomon Islands
	75.09	0.35	HCJA5	La Voz del Rio Tárqui, Ec.
3997	75.05	250		R. RSA, So. Africa
	75.05	20		Paradys, So. Africa
3998	75.03	100		R. Iran, Iran
3999	75.02	10		Godthäb, Greenland
4000	75.00			Tengkou, China
	75.00			Uoan Hot, Inner Mongolia
4010	74.80	15		Frunze, USSR
*	74.80		NPG	San Francisco, USA
4020	74.63	120/240		R. Peking, China
†4025	74.50	15	GIC24	Hailsham, Gt. Britain
4035	74.35	20/240		R. Peking, China
	74.35			Llasa, Tibet
4040	74.26	50		Magadan, USSR
	74.26	50		Erevan, USSR
4055	73.98	50		Petropavlovsk, USSR
4060	73.89	20/240		R. Peking, China
4069	73.74			Huhehot, Inner Mongolia
4080	73.53	50		Semipalatinsk, USSR
4085	73.44	50		Ulan Bator, Mongolia
4092	73.30	50		Yuzhno Sakh, USSR
4100	73.17	50		Kzyl Orda, USSR
4110	72.99			Urumchi, China
4130	72.64	120/240		R. Peking, China
4160	72.12	20/240		R' Peking, China
4200	71.43	120/240		R. Peking, China
4220	71.09	20/240		R. Peking, China
	71.09			Urumchi, China
4250	70.59	120/240		R. Peking, China
†4265	70.34	5	DAM	Elmshorn, Germany
4273	70.21	120/240		Pyongyang, Korea (D.R.)
†4286	70.00	10	VHP2	Belconnen, Australia
4310	69.61			Chimkent, USSR
4320	69.44	1	YDW	Pontianak, Indonesia
4355	69.89			Nukus, USSR
4360	68.81	20/240		R. Peking, China
4380	68.49			Fukien, China
4395	68.26	50		Yakutsk, USSR
4405	68.10	50		Khabarovsk, USSR
4420	67.87	50		Kokchetav, USSR
4425	67.80	50		Dudinka, USSR
4460	67.26	120/240		R. Peking, China
†4478	67.00		VIX4	Sydney, Australia
4485	66.89	50		Petropavlovsk, USSR
4500	66.67			Urumchi, China
	66.67	1	VNG	Lyndhurst, Australia
4510	66.52	50		Andizhan, USSR
4520	66.37	50		Khanty Manziysk, USSR
†4525	66.30	5	DIZ	Nauen, Germany (D.R.)
	66.30			Silinhot, China
†	66.30		NPM	Honolulu, Hawaii
4560	65.79	15		Guryev, USSR
	65.79	0.2	VSI8	Grand Turk, Turks Isl.
4600	65.22	5	9NB	R. Nepal, Nepal
4610	65.08	50		Khabarovsk, USSR
4620	64.94	120/240		R. Peking, China
4625	64.86	50		Pavlodar, USSR
4635	64.72	50		Dushanbé, USSR
4652	64.40	1	HCAK2	R. Dif. Ecuador, Ecuad.
4665	64.30	50		Baku, USSR
4680	R64.10	1	HCWE1	R. Nac. Espejo, Ecuador
4684	64.05			Hanoi, Vietnam (Dem. Rep.)
4685	64.03	50		Irkutsk, USSR
4615	63.56	0'25	CR4AB	R. Cl. Mindelo, Cape Verde
4725	63.49	0.2	HCEH3	R. El Progresso, Ecuador
4740	63.29	30		Malé, Maldive Islands
	63.29	0.25	HCBK2	R. El Mundo, Ecuador
4750	63.16			Huhehot, Inner Mongolia
	63.16	20	YDO4	Makassar, Indonesia
	63.16	7.5/100	APD2	Dacca, Pakistan
4755	63.09			Sibolga, Indonesia
	63.09	0.25	HRMD	R. Yoro, Honduras Rep.
	63.09	1	ZYY3	R. Brasil, Brazil
	63.09	0.1	ZYF23	R. Dif. Maranhão, Brazil
	63.09	0.2	HCLJ6	La Voz de Bolívar, Ecuador
4756	63.08	5	VRH4	Suva, Fiji Islands
4760	63.03	15		Dzambul, USSR
	63.05	2.5		AIR Simla, India
	63.03	10/100	VUD	AIR Delhi, India
	63.05	5	CP62	Radioem. Bolivia, Bolivia
	R63.03	0.5	OAX3W	R. Tingo Maria, Peru
	63.03	1.5	YVPP	R. Frontera, Venezuela
4762	63.00	10		R. Clube de Moçambique
	63.00	50		Ulan Bator, Mongolia
4762	63.00	0.25	OCX4W	R. Inca, Peru
4765	62.95	50		R. TV Congolaise, Congo
	62.95	1	ZYN37	R. Feira de Santana, Brazil
	62.95	1	HCAK2	R. Dif. del Ecuador, Ecuador
4770	62.89	0.5	CR6RG	R. Diamang, Angola
	62.89	10		R. St. ELWA, Liberia
	62.89	20/240		R. Peking, China
	62.89	20	RRI	Djakarta, Indonesia
	62.89	120/240		Pyongyang, Korea
	62.89	1	HRLC	R. Continental, Hond. Rep.
	62.89	0.4	HCMX4	R. Cenit, Ecuador
	62.89	1	HCJF2	R. Guayaquil, Ecuador
	62.89	0.5	OAX2G	R. Cajamarca, Peru
	62.89	1	YVQE	R. Bolivar, Venezuela
4775	62.84	100		R. Afghanistan, Afghanistan
	62.84	10		AIR Gauhati, India
	62.84	7.5	YDK6	Djambi, Indonesia
	62.84	1	CP84	R. Los Andes, Bolivia
	62.84	5	ZYH29	R. Dragão do Mar, Brazil
	62.84	5	ZYR81	R. Progresso, Brazil
	62.84	1	HJKW	Emis. Kennedy, Colombia
4777	62.80	25		R. Gabon, Gabon
4780	62.76	50		Moscow, USSR
	62.76	4		R. Djibouti, Afars & Issas
	62.76	5	CR6RZ	Emiss. Oficial, Angola
	62.76	1	HRRZ	R. Juticalpa, Honduras
	62.76	1	HCMQ1	R. Athualpa, Ecuador
	62.76	1	YVLA	La Voz de Carabobo, Venezuela
4783	62.72	18		R. Mali, Mali
4784	62.71	1	TIRHB2	R. Popular, Costa Rica
4785	62.70	50		Baku, USSR
	62.70	10		R. Tanzania, Tanzania
	62.70			Kunming, China
	62.70	1	CP74	R. Indoamérica, Bolivia
	62.70	1	ZYY20	R. Cult. Caiari, Brazil
	62.70	0.5	ZYM8	R. Ribamar, Brazil
	62.70	1	HJLW	Ecos Combeima, Colombia
	62.70	2	HCFA4	La Voz de Manabí, Ecuador
	62.70	1	OAX3V	R. Horizonte, Peru
4787	R62.66	1	TIRHB2	R. Popular, Costa Rica
4790	62.63	10		R. Malaysia, Malaysia
	62.63	1	HIAS	Onda Musical, Dom. Rep.
	62.63	1	HRFS	R. Primero de Mayo, Hon.
	62.63	1	HCVP2	R. Sistema Atalaya, Ecuador
	62.63	0.4	OAX5X	R. Nazca, Peru
	62.63	5	YVON	Ondas Porteñas, Venezuela
4791	R62.62	1	HIAS	Onda Musical, Dom. Rep.
4795	62.57	50		Ulan Ude, USSR
	62.57	10		R. Com. de Angola, Angola
	62.57	4		R. Brazzaville, Congo
	62.57	10		R. Tanzania, Zanzibar
	62.57	50	XZK2	Rangoon, Burma
	R62.57	30		R. Nepal, Nepal
	62.57	1	CP73	R. Nueva América, Bolivia
	62.57	1	ZYF37	R. Congonhas, Brazil
	62.57	0.5	ZYP27	R. Copacabana, Brazil
	62.57	2	PRI4	R. Tabajará, Brazil
	62.57	1	HJCN	R. Reloj, Colombia
	62.57	0.5	HCAS4	La Voz de los Carás, Ecuad.
4800	62.50	10		AIR Hyderabad, India
	62.50	0.25	HCSV5	R. Amazonas, Ecuador
	62.50		OCY4S	R. La Nueva Voz, Peru
	62.50	0.5	OBX7C	R. Onda Azul, Peru
	62.50	10	YVMO	R. Lara, Venezuela
4804	62.45	5		Kisumu, Kenya
4805	62.43	50	YDB4	Djakarta, Indonesia
	62.43	0.5	8FW40	Fak Fak, Indonesia
	62.43	0.25	CP114	R. San Miguel, Bolivia
	62.43	5	ZYS8	R. Dif. do Amazonas, Brazil
	62.43	0.5	HJAU	Universidad Antioquia, Col.
4807	62.41	4		St. Denis, Réunion
	62.41	10		R. Clube de São Tomé
	R62.41			R. Pop. de Cuenca, Ecuador
4810	62.37	1		Danang, Vietnam
	62.37	0.2	HCLS3	R. Coro de Sta. Cecilia, Ec.
	62.37	1	OAX2U	R. San Ignacio, Peru
	62.37	1	YVMG	R. Popular, Venezuela
4815	62.31	4		Ouagadougou, Upper Volta
	62.31	0.1	CP56	R. Onkoi, Bolivia
	62.31	1	ZYH27	R. Icarema Fortaleza, Brazil
	62.31	1	ZYP33	Petropolis R. Dif. Brazil
	62.31	1	OAX8X	R. Amazonas, Peru
	62.31	1	OAX5U	La Voz de Huamanga, Peru
4820	62.24	50		Magadan, USSR
	62.24	100	CR6RZ	R. Angola, Angola
	62.24	3.1		R. Gambia, Gambia
	62.24	10	VUC	AIR Calcutta, India
	62.24	5	HRVC	R. Evangélica, Hond. Rep.
	62.24	0.2	XWJG	Guadalajara, Mexico
	62.24	0.45	HCRT6	R. Paz y Bien, Ecuador
	62.24	0.45	OAX7K	R. Puno, Peru
	62.24	1	YVRC	La Voz de Apure, Venezuela
4823	R62.21			Hanoi, Vietnam (Dem. Rep.)
4825	62.18	15		Ashkabad, USSR
	62.18	1	CP70	R. Grigotá, Bolivia
	62.18	0.5	ZYE7	R. Educ. de Parnaiba, Br.
	62.18	1	ZYV56	R. Cl. de Varginha, Brazil
	62.18	1	HJHC	R. Nariño, Colombia
	62.18	1	OAX8R	R. San José, Peru

kHz	m	kW	Call	Stations & Countries
4825	62.18	0.5	OAZ6Z	Moquegua, Peru
4830	62.11	5	HSKB	R. Thailand, Thailand
	R62.11	1	CP70	R. Grigota, Bolivia
	62.11	0.5	HCJS1	Ondas del Angel, Ecuador
	62.11	4	OBX51	R. Apurimac, Peru
	62.11	1	YVOA	La Voz del Táchira, Venez.
4835	62.05	18		R. Mali, Mali
	62.05	20/10		R. Malaysia, Sarawak
	62.05	1	ZYA1	R. Dif. Roraima, Brazil
	62.05	0.5	ZYV37	R. Triângulo Minciro, Brazil
	62.05	1	HJAM	R. Buenaventura, Colombia
	62.05	1	HCAM4	La Voz del Valle, Ecuador
	62.05	0.35	OAX7T	R. Sicuani, Peru
	62.05	0.5	OAZ4J	R. Sudamericana, Peru
4836	62.03	10		Gaberones, Botswana
4840	61.98	2	CR6RY	Novo Redondo, Angola
	61.98	10	VUB	AIR Bombay, India
	61.98	1	OBX5E	R. Andahuaylas, Peru
	61.98	1	OAX8F	R. Atlántida, Peru
	61.98	1	YVOI	R. Valéra, Venezuela
4845	61.92	10		R. Malaysia, Malaysia
	61.92	0.75	HRVK	R. Católica S. Isidro, Hon.
	61.92	1	ZYU8	R. Dif. Teresina, Brazil
	61.92	1	HJGF	R. Bucaramanga, Colombia
	61.92	0.38	HCRM3	R. Cultural Machala, Ecuad.
	61.92	1	OAX1X	La Voz del Chira, Peru
4849	61.87	2.5	PZX2	R. Suriname, Surinam
4850	61.86	50		Tashkent, USSR
	61.86	1	CR6RU	R. Cl. do Uige, Angola
	61.86	30		R. Mauritania, Mauritania
	61.86	10		Forest Side, Mauritius.
	61.86	2		AIR Kohima, India
	61.86	0.25	HCCV3	Ondas del Zamora, Ecuador
	61.86	1	OCX4B	R. Callao, Peru
	61.86	1	YVKF	Ondas Populares, Venezuela
4855	61.79	5		Nairobi, Kenya
	61.79	20		R. Clube de Moçambique
	61.79	10	YDK	Palembang, Indonesia
	61.79	1	HRVA	R. Corona, Honduras Rep.
	61.79	1	CP66	R. Centenario, Bolivia
	61.79	1	CP59	R. Cobija, Bolivia
	61.79	1	ZYR61	R. Dif. de Taubaté, Brazil
	61.79	1	HJGT	R. Neiva, Colombia
	61.79	0.35	HCMA1	R. Marañón, Ecuador
	61.79	9.5	OAX8I	R. La Hora, Peru
	61.79	0.5	OCX7E	Pto. Maldonado, Peru
4860	61.73	50		Moscow, USSR
	61.73	5	CR6RZ	Emiss. Ofical, Angola
	61.73	20/240		R. Peking, China
	61.73	10/100	VUD	AIR Delhi, India
	61.73	1		R. Kashmir, India
	61.73	1	YVQE	R. Mundo Maracaibo, Venez.
4865	61.66	1	CAS67	Ponta Delgada, Azores
	61.66	25		R. Clube de Moçambique
	61.66	10		Brunei Bc. Sce, Brunei
	61.66	2.5	PRC5	R. Club do Pará, Brazil
	61.66	1	HCXX4	R. Dif. Cenit, Ecuador
4870	61.60	1	CR6RN	R. Cl. de Angola, Angola
	61.60	10		Colombo, Ceylon
	61.60	2	TGQH	R. Sta. Cruz, Guatemala
	61.60	5	HCGM7	R. Rio Amazonas, Ecuador
	61.60	0.5	OCX4T	R. Obispado, Peru
	61.60	5	YVKP	R. Tropical, Venezuela
4872	61.58	10	8FW20	Sorong, Indonesia
4873	61.56	50		Uralsk, USSR
4875	61.54	0.25		Porto Amélia, Moçambique
	61.54	20/100		Paradys, So. Africa
	61.54	5/1	ZYZ30	R. Jornal do Brasil, Brazil
	61.54	1	HJDE	R. Villavicencio, Colombia
	61.54	3	HCHE4	La Voz Esmeraldas, Ecuador
4877	61.52	80/20		Saigon, Vietnam
4880	61.48	10		Kinshasa, Congo Dem. Rep.
	61.48	10		AIR Lucknow, India
	61.48	1	HIJP	R. Comercial, Dom. Rep.
	61.48	0.5	HRQN	La Voz del Atlántico, Hon.
	61.48	1	HCWE1	R. Nac. Espejo, Ecuador
	61.48	1	OCX4E	R. Once Sesenta, Peru
	R61.48	10	YVKF	Ondas Populares, Venezuela
	61.48	10	YVMS	R. Universo, Venezuela
4885	61.45	50		Novosibirsk, USSR
	61.45	10		Nairobi, Kenya
	61.45	1	CP77	R. Sararenda, Bolivia
	61.45	1	ZYD9	R. Acreana, Brazil
	61.45	1	ZYV50	R. Cultura do Poços, Brazil
	61.45	1	ZYG26	R. Pioneira de Teresina, Br.
	61.45	1	HJIG	Ondas del Meta, Colombia
	61.45	1	OAX5V	R. Villarica, Peru
4888	61.39	10		Bukavu, Congo Dem. Rep.
4890	61.35	25		Dakar, Sénégal
	61.35	10	VLT/K4	Port Moresby, Australia
	61.35	1	HRVL	R. Lux, Honduras Rep.
	61.35	5	YVKB	R. Dif. Venezuela, Venezuela
4892	61.32	0.25		Quelimane, Moçambique
	61.32	4		Cayenne, French Guina
4895	61.29	50		Ashkabad, USSR
	61.29	50		Tyumen, USSR
	61.29	2.5	9UZ24	R. Cordac, Burundi
	61.29	250		R. RSA, So. Africa
	61.29	5	PRF6	R. Baré, Brazil

kHz	m	kW	Call	Stations & Countries
4895	61.29	1	ZYN22	R. Cultura da Bahia, Brazil
	61.29	0.4	OAZ4T	R. Chanchamayo, Peru
4896	61 27	1	CR6RO	R. Cl. do Bie, Angola
4900	~~61.22~~	18		Conakry, Guinea[
	61.62	10		Colombo, Ceylon
	61.22	1	YDS6	Gorontalo, Indonesias
	61.22	0.5	HROM	La Voz del Ulúia, Hon. Rep.
	R61.22	0.4		R. Lima, Peru
	61.22	10	YVNK	R. Juventud, Venezuela
4902	61.20	0.5	OAZ8A	R. Inst. Lingulstico, Peru
4904	61.18	30		Fort Lamy, Chad
	61.18	0.42	HCVS6	La Voz de Sasquisili, Ecuador
4905	61.16	20/240		R. Peking, China
	61.16	10	YDN3	Kotaradja, Indonesia
	61.16	5	ZYZ20	R. Relogio, Brazil
4907	61.14	15		R. Cambodia, Cambodia
4908	R61.12			Shanghai, China
	61.12	1	CE490	R. Transandina, Chile
4910	61.10	1	CR5RS	R. Clube do Lobito, Angola
	61.10	1	YDM2	Bukittinggi, Indonesia
	61.10	1	YDX	Tdj. Pinang, Indonesia
	61.10	1	HIN	R. HIN, Dominican Republic
	61.10	5	HCMJ1	Emis. Gran Colombia, Ecuad.
	61.10	0.5	OAX2K	R. Libertad, Peru
	61.10	1	OBX7V	R. Tahuantisuyo, Peru
	61.10	10	YVPN	Esc. Radiofónicas, Venezuela
4911	61.08	10/20		Lusaka, Zambia
4912	61.07	2	VSZ2	Tarawa, Gilbert Islands
4914	61.05	0.25	HRSY	La Voz del Pacífico, Hon.
4915	61.03	10		Accra, Ghana
	61.03	100		Nairobi, Kenya
	61.03	10		Quetta, Pakistan
	61.03	1	CP88	R. Amboro, Bolivia
	61.03	1	ZYR60	R. Cult. de Araraquara, Br.
	61.03	2	ZYE2	R. Dif. de Macapá, Brazil
	61.03	1	ZYL20	Emis. Rio São Francisco, Br.
	61.03	0.5	OAX2H	R. La Hora, Peru
4916	61.03	3	HCAH3	R. El Trébol, Ecuador
4917	R61.01	1	ZYL20	Emis. Rio São Francisco, Br.
4920	60.98	10	VUM	AIR Madras, India
	60.98	10	VLM4	Brisbane, Australia
	60.98	0.15	TGRY	V. San Raymundo, Guatem
	60.98	1	HRPL	R. Progreso, Honduras Rep.
	60.98	0.2	HCMP2	La Voz de la Peninsula, Ec.
	60.98	1	OBX7H	R. Ondas del Titicaca, Peru
	60.98	7.5	YVKR	R. Caracas, Venezuela
4923	60.94	5	HCRQ1	R. Quito, Ecuador
4925	60.90	25		R. Clube de Moçambique
	R60.90	1		Djambi, Indonesia
	60.90	1	ZYA6	R. Icarema, Brazil
	60.90	1	ZYV32	R. Industrial, Brazil
4927	R60.90	15		Phnom Penh, Cambodia
4926	60.90	5	EAJ206	R. Ecuatorial, Guinea
4930	60.85	50		Erevan, USSR
	R60.85	1	HIBE	R. Mil. Dom. Rep.
	60.85	1	HRVS	R. Católica, Honduras, Rep.
	60.85	1	HCCR1	Casa de la Cultura, Ecuador
	60.85	1	YVOT	R. Junin, Venezuela
4932	60.83	10		Benin City (NBC), Nigeria
4934	60.80	10		Nairobi, Kenya
	60.80	0.25	OAX5Q	R. Concejo Provincial, Peru
4935	60.80	1	CR5RE	R. Clube de Malanje, Angola
	60.80	1	CP110	R. Norte, Bolivia
	60.80	0.5	ZYR248	Lins R. Club, Brazil
	60.80	1	ZYI21	R. Poti, Brazil
	60.80	1	OAX9E	R. Tropical, Peru
4938	60.75	25		R. Sanaa, Yemen
4940	60.73	50		Kiev, USSR
	60.73	10		R. Abidjan, Ivory Coast
	60.73	10		AIR Gauhati, India
	60.73	1	HIBE	R. Mil, Dom. Rep.
	60.73	0.5	4VM	R. Diff. Haitienne, Haiti
	60.73	10	HCXZ1	R. Dif. Nacional, Ecuador
	60.73	0.5	OAX6N	R. Misti, Peru
	60.73	0.5	OAZ4R	R. San Juan, Peru
	60.73	10	YVPA	R. Yaracuy, Venezuela
4945	60.67	20		Paradys, S. Africa
	R60.67	50		Omdurman, Sudan
	60.67	2.5	YDA3	Bandung, Indonesia
	60.67	0.5	DZB6	Nat. Teachers Coll, Philipp.
	60.67	1	ZYO25	R. Capixaba, Brazil
	60.67	0.25	ZYE22	R. Dif. Mearim, Brazil
	60.67	1	ZYE23	R. Educ, Bragança, Brazil
	60.67	1	HJDH	R. Colos ál, Colombia
4946	60.65	10		Nampula, Moçambique
4950	60.60	5		Nairobi, Kenya
	60.60	10		Peshawar, Pakistan
	60.60	20/10		R. Malaysia, Sarawak
	R60.60	1	HRRZ	R. Juticalpa, Honduras Rep.
	R60.60	1	CP70	Em. Católica, Bolivia
	60.60	0.25	HCAV3	R. Luz y Vida, Ecuador
	60.60	0.5	OAX71	R. Madre de Dios, Peru
	60.60	1	YVMM	R. Coro, Venzuela
4955	60.54	4		Tananarive, Malagasy Rep.
†	60.54		NPN	Guam
	60.54	0.5	CP105	R. Ibare, Bolivia
	60.54	0.25		R. Caiari, Brazil
	60.54	2	PRF7	R. Cult. de Campos, Brazil
	60.54	20	HJCQ	R. Nacional, Colombia

kHz	m	kW	Call	Stations & Countries
4955	60.54	1	OAX5S	R. Amauta, Peru
4957	60.52	50		Anadyr, USSR
4958	60.51	50		Baku, USSR
	60.51	0.25		Nampula, Moçambique
4960	60.48	120/240		R. Peking, China
	60.48	10/100	VUD	AIR Delhi, India
	60.48	1	HICN	R. Antillas, Dominican Rep.
	60.48	1	HCPH5	La Voz del Chofer, Ecuador
	60.48	0.5	OAX1S	R. Lambayeqye, Peru
	60.48	1	YVQA	R. Sucre, Venezuela
4962	R60.45	1	HICN	R. Antillas, Dom. Rep.
4965	60.42	20/100		Paradys, So. Africa
	60.42	10/20		Lusaka, Zambia
	60.42	10		R. Brunei, Brunei
	60.42	1.5	CP90	R. Juan XXIII, Bolivia
	60.42	2.5	HJAF	R. Santa Fé, Colombia
4967	60.40	1/10/50		R. Kuwait, Kuwait
4968	60.38	10		Colombo, Ceylon
4970	60.36	5	9WD215	Kota Kinabalu, Sabah
	60.36	3	HCGH1	R. Tárqui, Ecuador
	60.36	1	OBX1Q	R. San Juan, Peru
	60.36	1	OGX7D	Puno, Peru
	60.36	10	YVLK	R. Rumbos, Venezuela
4972	60.33	30/4		R. Yaoundé, Cameroon
4975	60.30	50		Blagovechensk, USSR
	60.30	50		Dushanbé, USSR
	60.30			Foochow, China
	60.30	1	ZYP27	R. Copacabana, Brazil
	60.30	5/2.5	ZYY9	R. Timbira, Brazil
	60.30	1	HJJG	R. Internacional, Colombia
	60.30	5	OCX4H	R. del Pacifico, Peru
4976	60.29	3/8		Kampala, Uganda
4980	60.25	50		Sukhumi, USSR
	60.25	20		Ejura, Ghana
	60.25			Wuhan, China
	60.25	10/50		Karachi, Pakistan
	60.25	0.5	HIKZ	R. Dif. Popular, Dom. Rep.
	60.25	0.25	HCJC5	Ondas Azuayas, Ecuador
	69.25	0.3	OAX9I	R. Huallaga Central, Peru
	60.25	0.3	OBX7W	R. Maldonado, Peru
	60.25	10	YVOC	Ecos del Torbes, Venezuela
4985	60.18	1	CR6RB	R. Ecclesia, Angola
	60.18	30		Tananarive, Melagasty
	60.18	10		AIR Kurseong, India
	60.18	10		R. Malaysia, Malaysia
	60.18	10	CP75	La Cruz del Sur, Bolivia
	60.18	1	ZYR89	R. Aparecida, Brazil
	60.18	1.5	ZYZ15	Voz de Oeste, Brazil
	60.18	10	OCX4O	R. Nacional Lima, Peru
4990	60.12	50		Alma Ata, USSR
	60.12	20		Lagos (NBC), Nigeria
	60.12			Changsha, China
	60.12	10		AIR Bhopal, India
	60.12	10/100	VUD	AIR Delhi, India
	60.12	1	HCSJ1	R. Xavier, Ecuador
	60.12	1	OBX1O	R. Atlanta, Peru
	60.12	1	OBX7R	Dif. El Triunfo, Peru
	60.12	10	YVMQ	R. Barquisimento, Venezuela
4994	60.08	50		Omdurman, Sudan
4995	60.06	5	ZYX2	R. Brazil, Central, Brazil
	60.06	1	OAZ4C	R. Andina, Peru
4996	60.05	50		Magadan, USSR
*5000	60.00	0.5	MSF	Teddington, Gt. Britain
*	60.00	1	IAM	Rome, Italy
*	60.00	5	IBF	Turin, Italy
*	60.00	20	RWN	Moscow, USSR
†	60.00	4	ZUO	Olifantsfontein, So. Africa
*	60.00		BPV	Peking, China
*	60.00	2	JJY	Tokyo, Japan
*	60.00	2	WWVH	Puunene, Hawaii
*	60.00	10	WWH	Fort Collins, USA
†	60.00	2	LOL	Buenos Aires, Argentina
5002	R59.98	15		R. Cambodia, Cambodia
5005	59.94	0.25	OAX2S	R. Jaén, Peru
5010	59.88	4/30		R. Garoua, Cameroon
	59.88	30		R. Tananarive, Malagasy Rep.
	59.88			Nanning, China
	59.88	0.15		Palu, Indonesia
	59.88	10		FBS, Singapore
	59.88	0.8	HIMS	R. Cristal, Dominican Rep.
	59.88	0.4	OAX8V	R. Eco, Peru
	59.88	1	YVRW	R. Boconó, Venezuela
5012	59.86	50		Sukhumi, USSR
5015	59.82	15		Arkhangelsk, USSR
	59.82	50		Vladivostock, USSR
	59.82	1	CR6RM	Moçamedes, Angola
	59.82	5		Grenada, Windward Islands
	59.82	1	CP48	R. Universo, Bolivia
	59.82	0.35	OAX7Z	R. Juliaca, Peru
5017	R59.80	5		Emis. da Guiné, Port Guinea
5020	59.76	0.25		Quelimane, Moçambique
	59.76	4		R. Niger, Niger
	59.76	10		Colombo, Ceylon
	59.76	4	HJFW	Transm. Caldas, Colombia
	59.76	0.5	4VGS	R. Indépendance, Haiti
	59.76	10	YVKO	R. Nacional, Venezuela
5024	59.71	1	CR6RH	R. Clube Huila, Angola
5025	R59.70	0.25		Quelimane, Moçambique
	59.70	1	CP106	R. Litoral, Bolivia
5025	59.70	1	ZYX30	R. Dif. Aquidauana, Brazil
	59.70	0.5	ZYK41	Emissora Rural, Brazil
	59.70	1		Voz Amazonia, Brazil
	59.70	3	HCOB5	R. Splendit, Ecuador
	59.70	0.3	OAX7Q	R. Quillabamba, Peru
5026	59.70	3/8		Kampala, Uganda
5030	59.64	120/240		R. Peking, China
	59.64	20	YDP	Medan, Indonesia
	59.64	50		R. Malaysia, Malaysia
	59.64	20/10		R. Malaysia, Sarawak
	59.64	1	HIBB	La Voz del Papagayo, Dom. Rep.
	59.64	0.5	4VGS	R. Indépendance, Haiti
	59.64	0.5	HCPS5	Ondas Cañaris, Ecuador
	59.64	10	YVKM	R. Continente, Venezuela
5033	59.61	1	CR6RW	R. Cl. de Cabinda, Angola
5035	59.58	50		Alma Ata, USSR
	59.58	30		Bangui, Central African Rep.
	59.58	1	HROE	Voz de las Fronteras, Hon.
	59.58	1	ZYW22	R. Anhanguera, Brazil
	59.58	0.5	ZYO24	R. Espirito Santo, Brazil
	59.58	0.75	HCVC3	R. Centinela del Sur, Ecuador
	59.58	0.5	OBX7B	R. Ayaviri, Peru
	59.58	1	OAX6U	R. Ilo, Peru
5040	59.52	50		Tbilisi, USSR
	59.52	50	XZK42	Rangoon, Burma
	59.52		ZNX20	Bridgetown, Barbados
	59.52	0.15	4VGA	R. Capois la Mort, Haiti
	59.52	10	OCY4E	R. Los Andes, Peru
	59.52	1	YVQH	R. Maturín, Venezuela
5041	59.51	10		Emis. da Guiné, Port. Guinea
5042	59.50	1	CR6RF	R. Clube de Benguela, Angola
5045	59.46	0.25	ZK5	Rarotonga, Cook Islands
	59.46	1	ZYP23	R. Imperial, Brazil
	59.46	5	CP38	La Voz del Altiplano, Bolivia
5047	59.43	4/100		Lomé, Togo
	R59.43			Jogjakarta, Indonesia
5050	59.41	50		Petropavlovsk, USSR
	59.41	20		R. Tanzania, Tanzania
	59.41	1	HJDW	La Voz de Medellín, Colombia
	59.41	1.2	HCFF1	R. Jesús del Gran Poder, Ec.
	59.41	0.4	OAX1J	T. Tumbes, Peru
	59.41	2	YVKD	R, Cultura, Venezuela
5052	59.38	10		R. Singapore, Singapore
5055	59.35	50		Chita, USSR
	59.35	0.1		Kendari, Indonesia
	59.35	5	CP87	R. San Rafael, Bolivia
	59.35	2	ZYX24	R. Cult. Guiabá, Brazil
	59.35	1	ZYO23	R. Vitória, Brazil
	59.35	0.5	HCRP1	R. Católica, Ecuador
	59.35	1	OBX7O	R. Onda Imperial, Peru
5056	59.33	10		R. Addis Ababa, Ethiopia
5058	59.31	1	OAZ4A	R. Tarma, Peru
				5060-5950kHz
5060	59.29	1	CR6RD	R. Cl. do Huambo, Angola
	59.29	7.5		Aden, So. Yemen
	59.29	0.25	HCCP7	R. Cenepa, Ecuador
	R59.29	1	YVRV	R. Litoral, Venezuela
5065	59.23	10		Petrozavodsk, USSR
5070	59.17	0.3	TGMS	R. Nac. Mazatenango, Guat.
5075	59.12	120/240		R. Peking, China
	59.12	25	HJGC	Acción Cult. Popular, Col.
5076	59.10	10		Colombo, Ceylon
5077	59.08	20	YDJ1	Jogjakarta, Indonesia
5090	59.00	50		Palana, USSR
	59.00	0.25	4VAE	La Voix Grand Anse, Haiti
5095	58.88	50	HJGG	Acción Cult. Popular, Col.
5120	R58.59	0.75	HCVC3	R. Centinela del Sur, Ecuad.
5125	58.54	120/240		R. Peking, China
5155	58.20	0.15	4VEW	R. Stn. 4VEL, Haiti
5160	58.14	20/240		R. Peking, China
5165	58.08	20/240		R. Peking, China
5170	58.03			Fukien, China
5180	R57.92	1	OAX8F	R. Atlántida, Peru
5192	57.78	1	CR6RV	R. Clube de Moxico, Angola
5215	57.53	20/240		R. Peking, China
5220	57.47	20/240		R. Peking, China
5240	57.25	20/240		R. Peking, China
	57.25			Fukien, China
5250	57.14	120/240		R. Peking, China
5260	57.03	15		Alma Ata, USSR
5290	56.71	50		Krasnoyarsk, USSR
5295	56.66	20/240		R. Peking, China
5320	56.39	20/240		R. Peking, China
5360	55.97	20/240		R. Peking, China
5400	R55.56	0.5	OAX3E	R. Huaráz, Peru
5440	55.15			Urumchi, China
†5448	55.05		NBA	Canal Zone, Panama
5450	55.05	20/240		R. Peking, China
5455	55.00	50		Moscow, USSR
5500	54.55	20/240		R. Peking, China
5535	54.20	20/240		R. Peking, China
5545	54.10	20/240		R. Peking, China
5650	53.10	20/240		R. Peking, China
5714	R52.51	0.5	OBX7F	R. Ayaviri, Peru
5740	52.26	60		Erevan, USSR
5800	51.72			Urumchi, China
†5807	61.65	15	GAY25	Rugby, Gt. Britain
5825	51.50	50		Syktyvar, USSR

kHz	m	kW	Call	Stations & Countries
5850	51.28	20/240		R. Peking, China
5860	51.19	20/240		R. Peking, China
5870	51.11	20/240		R. Peking, China
†	51.11		NSS	Annapolis, USA
5875	51.06	1	HRN	La Voz de Honduras, Hon.
5880	51.02	20/240		R. Peking, China
5900	50.84	50		Moscow, USSR
	50.84			Fukien, China
	50.84		HCDF1	La Voz del Norte, Ecuador
5908	50.78	7.5	4VB	Voix de la Rev. Duv, Haiti
5910	50.76	50		Moscow, USSR
5915	50.72	100		Sverdlovsk, USSR
	50.72	20/240		R. Peking, China
5920	50.68	50		R. Sofia, Bulgaria
	50.68	50		Moscow, USSR
	50.68	50		Tashkent, USSR
5925	50.63	50		Tashkent, USSR
5930	50.59	100		Praha, Czechoslovakia
	50.59	15		Arkhangelsk, USSR
5933	50.57			Chengtu
5935	50.55	20/240		R. Peking, China
	50.55			Llasa, Tibet
5940	50.51	50		Magadan, USSR
	50.51	120		Minsk, USSR
				5960-6200kHz (49 metre band)
5950	50.42	120		R. Tirana, Albania
	50.42	50		Moscow, USSR
	50.42	20/240		R. Peking, China
	50.42	7.5	4VB	Voix de la Rev. Duv, Haiti
	R50.42	0.5	YNRG	R. Zelaya, Nicaragua
	50.42	0.3	HCCV5	La Voz de Quatro Rios, Ec.
5954	50.39	1	TIQ	R. Casino, Costa Rica
5955	50.39	100		Allouis, France
	50.39	50		R. Liberty
	50.39	0.4		Larissa, Greece
	50.39	50/60/100		R. Roma, Italy
	50.39	100		Sverdlovsk, USSR
	50.39	35/100		Tanger (VOA), Morocco
	50.39	10	8FK24	Pakanbaru, Indonesia
	50.39	10	VRH6	Suva, Fiji Islands
	50.39	100/250		Dixon, USA
	50.39	5	TGNA	R. Cultural, Guatemala
	50.39	1	HRVF	R. Exitos, Honduras Rep.
	50.39	0.5	YNRG	R. Zelaya, Nicaragua
	50.39	1	CP50	R. Pio XII, Bolivia
	50.39	10	ZYR226	R. Gazeta, Brazil
	50.39	1	CE595	R. Nuevo Mundo, Chile
	R50.39	0.75	HCTR1	R. Equinoccial, Ecuador
	50.39	0.5	OAX4P	R. Huancayo, Peru
5958	50.36	10		R. Lumbumbashi, Congo (DR)
5960	R50.34	50/240		R. Tirana, Albania
	50.34	100		Allouis, France
	50.34	7.5/5		Athens, Greece
	50.34	100		Trans World Radio, Monaco
	50.34	50		Kaunas, USSR
	50.34	100		Vladivostok, USSR
	50.34	20/240		R. Peking, China
	50.34	1		R. Kashmir, India
	50.34	50		Ulan Bator, Mongolia
	50.34	7.5		Damascus, Syria
	50.34	1	BEP23	Taipei, Taiwan
	50.34	10		Godthåb, Greenland
	50.34	1	HRHR	La Voz de Occidente, Hon.
	50.34	1	HJCF	La Voz de Bogotá, Colombia
	50.34	0.25	OAX7L	La Voz del Altiplano, Peru
5965	50.29	250		Woofferton (VOA) Gt. Brit.
	50.29	10		Gaberones, Botswana
	50.29	100		El Beida, Libya
	50.29	35		Tanger (VOA), Morocco
	50.29	50		R. Malaysia, Malaysia
	50.29	10	APQ2	Quetta, Pakistan
	50.29	100/250		Delano, USA
	50.29	1	HRWW	La Voz de Centroamérica, Hon.
	50.29	0.5	YNWA	R. Mundial, Nicaragua
	50.29	7.5	ZYU60	R. Guiaba, Brazil
	50.29	0.2	HCGE5	R. Mundial, Ecuador
5970	50.25	10		R. Free Europe, Germany
	50.25	15/100		Warsaw, Poland
	50.25	100		Tashkent, USSR
	50.25	50		Alger, Algeria
	50.25	4		R. Brazzaville, Congo
	50.25	10		AIR Gauhati, India
	50.25	10	YDO2	Bandjarmasin, Indonesia
	50.25	1	DZCA	HCDA, Philippines
	50.25	50		R. Canada, Canada
	50.25	5	HJVN	R. Horizonte, Colombia
	50.25	10	OBX4Q	R. El Sol, Peru
5975	50.21	75/100		BBC London, Gt. Britain
	50.21	10		Gwelo, Rhodesia
	50.21	20/240		R. Peking, China
	50.21	10	HLK52	Seoul, Korea
	50.21	1	CP44	R. Nacional, Bolivia
	50.21	10	ZYT44	R. Guarajá, Brazil
	50.21	10	CE597	Emis. Pres. Balmaceda, Chile
	50.21	3	ZPA6	R. Guarani, Paraguay
5980	50.17	50/100		R. Nederland, Holland
	50.17	100		Tbilisi, USSR
	50.17	0.5		Freetown, Sierra Leone
	50.17	250		R. RSA, So. Africa

kHz	m	kW	Call	Stations & Countries
5980	50.17	100		Beyrouth, Lebanon
	50.17	3.5	BED30	Taipei (BCC), Taiwan
	50.17	10		Godthåb, Greenland
	50.17	2	ZFY	R. Demerara, Guiana
	50.17	7.5	4VB	Voix dela Rev. Duv, Haiti
	50.17	10	HJLY	La Voz del Rio Grande, Col.
	R50.17			R. Musical, Ecuador
	50.17	5	OBX4M	R. Panamericana, Peru
5985	50.13	10		R. Free Europe, Germany
	50.13	50/100		R. Nederland, Holland
	50.13	50/100		R. Nacional, Portugal
	50.13	100		R. Tanzania, Tanzania
	50.13	20/240		R. Peking, China
	50.13	7.5	APD2	Dacca, Pakistan
	50.13	1	BEC37	Taipei, Taiwan
	50.13			Hanoi, Vietnam (Dem. Dep.)
	50.13	100	WNYW	R. New York, USA
	50.13	1.5	LRS2	R. Splendid, Argentina
	50.13	10	HJHA	Trans. Independencia, Col.
5990	50.08	75/100		BBC London, Gt. Britain
	50.08	50/60/100		R. Roma, Italy
	50.08	120		R. Bucharest, Rumania
	50.08	100		Hörby, Sweden
	50.08	100		Serpukhov, USSR
	50.08			Huhehot, Inner Mongolia
	50.08	10		AIR Bhopal, India
	50.08	10	YDS2	Menado, Indonesia
	50.08	0.5		Pakanbaru, Indonesia
	50.08	50		R. Canada, Canada
	50.08	7.5	PRL5	R. Minist. Educação, Brazil
	50.08	1	OAX1W	R. Nacional Tumbes, Peru
5993	50.05	10		R. Mdandaka, Congo
5995	50.04	25		R. Andorra, Andorra
	50.04	35		Thessaloniki (VOA), Greece
	50.04	15/100		Warsaw, Poland
	50.04	10		Blantyre, Malawi
	50.04	3	BEC77	Taipei, Taiwan
	50.04	250		Greenville, USA
	50.04	1	HRP1	Ecos de Honduras, Honduras
	50.04	4		R. Martinique, Martinique
	50.04	1	HOM50	Circuito RPC, Panama
	50.04	1	CP41	R. Loyola, Bolivia
	50.04	1	HJFL	La Voz del Pueblo, Colombia
6000	50.00	1	OEI20	Aldrans, Austria
	50.00	50/250		Moscow, USSR
	50.00	50		R. Afghanistan, Afghanistan
	50.00	20/240		R. Peking, China
	50.00	50		Riyadh, Saudi Arabia
	50.00	7.5		R. Singapura, Singapore
	50.00	25	PRK5	R. Inconfidencia, Brazil
	50.00	5	CXA2	R. Sur, Uruguay
	50.00	1	YVNL	R. Miranda, Venezuela
6003	49.97	0.25		Tripolis, Greece
6005	49.96	20/100		Berlin (RIAS), Germany
	49.96	50/100		R. Nederland, Holland
	49.96	50		Sverdlovsk, USSR
	49.96	8		R. Buea, Cameroon
	49.96	100		R. RSA, So. Africa
	49.96	10		R. Tanzania, Zanzibar
	49.96	10		Colombo, Ceylon
	49.96	10	VRH7	Suva, Fiji Islands
	49.96	0.5	CFCW	Montreal, Canada
	49.96	10	CP58	R. Progreso, Bolivia
6006	R49.95	1	TIHBG	R. Reloj, Costa Rica
6010	49.92	20	ORU5	Wavre, Belgium
	49.92	75/100		BBC London, Gt. Britain
	49.92	50/60/100		R. Roma, Italy
	49.92	10	VUC	AIR Calcutta, India
	49.92	7.5		BBC Tebrau, Malaysia
	49.92	35/100		Okinawa (VOA), Ryukyu Isl.
	49.92	10		Thai TV Co., Thailand
	49.92	1	CJCX	Sydney, Canada
	49.92	2	XEO1	Nucleo R. Mil, Mexico
	49.92	5	YSS	R. Nacional El Salvador
	49.92	0.25	CE601	R. Norte, Chile
	49.92	10	HJFK	La Voz Amiga, Colombia
	49.92	2	HCGB7	R. Pastaza, Ecuador
	49.92	10	OAX4V	R. América, Peru
6015	49.88	50		Rhodes (VOA), Greece
	48.88	100		Schwarzenburg, Switzerland
	49.88	50		Krasnoyarsk, USSR
	49.88	100		R. Abidjan, Ivory Coast
	49.88	5	PRA8	R. Cl. de Pernambuco, Brazil
	49.88	0.5	HCEB4	R. Manta, Ecuador
	49.88	1	ZPA10	R. Paraguay, Paraguay
6020	49.83	10		R. Nederland, Holland
	49.83	50		Moscow, USSR
	49.83	50		Khabarovsk, USSR
	49.83	50		Kiev, USSR
	49.83	20		Gwelo, Rhodesia
	49.83	2.5		AIR Simla, India
	49.83	3		Amman, Jordan
	49.83	250		Greenville, USA
	49.83	0.25	4VEB	R. Caraibes, Haiti
	49.83	1	HRSP	R. Moderna, Honduras Rep.
	49.83	0.25	XEUW	El Eco de Sotavento, Mexico
	49.83	1	OAX4Q	R. Victoria, Peru
6025	49.79	100	DMQ6	Deutsche Welle, Germany
	49.79	10/100		R. Nederland, Holland

kHz	m	kW	Call	Stations & Countries
6025	49.79	50/100	CSA52	R. Nacional, Portugal
	49.79	10	CR6RZ	Emiss. Oficial, Angola
	49.79			Benghazi, Libya
	49.79	0.3		Van Turkey
	49.79	20/240		R. Peking, China
	49.79	10		R. Malaysia, Malaysia
	49.79	10	ZYR63	R. Em. de Piratininga, Brazil
	49.79	3	ZPA1	R. Nacional Paraguay
6028	49.78	1	OAX8B	R. Nacional Iquitos, Peru
6030	49.75	20		Mühlacker (SDR), Germany
	49.75	100		Simferopol, USSR
	49.75	4		Franceville, Gabon
	49.75	100		Baghdad, Iraq
	49.75	2	DZH6	Cali of the Orient, Philipp.
	49.75	0.1	CFVP	Calgary, Canada
	49.75	250		Greenville, USA
	49.75	1	CE603	R. Minería, Chile
6035	49.71	50/100		R. Nederland, Holland
	49.71	30		R. Monte Carlo, Monaco
	49.71	50		Vladivostok, USSR
	49.71	50		Monrovia (VOA), Liberia
	49.71	10		Enugu (NBC), Nigeria
	49.71	50	XZK3	Rangoon, Burma
	49.71	1	HRTL	R. Tic Rac, Honduras Rep.
	49.71	10	ZYZ26	R. Globo, Brazil
	49.71	0.5	HCNK3	R. Cariamanca, Ecuador
	49.71	0.2	OAX6B	R. Landa, Peru
	49.71	1	CXA30	R. Nacional, Uruguay
6037	49.69	2	TIFC	Faro del Caribe, Costa Rica
6040	49.67	100		Munich (VOA), Germany
	49.67	4/30		R. Yaoundé, Cameroon
	49.67	10/100	VUD	AIR Delhi, India
	49.67	7.5	BED9	Taipei (BCC), Taiwan
	49.67	0.5	HRDH	R. Caribe, Honduras Rep.
	49.67	10	HJLB	La Voz del Tolima, Colombia
6042	49.65	0.25	OAX6A	R. Arequipa, Peru
6045	49.63	5		Athens (FBS), Greece
	49.63	100		Moscow, USSR
	49.63	35/100		Tanger (VOA), Morocco
	49.63	120	YDF =	Djakarta, Indonesia
	49.63	0.25	XEXQ	R. Universidad, Mexico
	49.63	1	HOU31	La Voz del Baru, Panama
	49.63	25	ZYS33	R. Clube Paranaense, Brazil
	49.63	10	OCY4H	R. Santa Rosa, Peru
6050	49.59	75		BBC London, Gt. Britain
	49.59	250		Woofferton (VOA), Gt. Britain
	49.59	50/60/100		R. Roma, Italy
	49.59	20		Irkutsk, USSR
	49.59	25		R. Clube de Moçambique
	49.59	10		Ibadan (WRNS), Nigeria
	49.59	10/100	VUD	AIR Delhi, India
	49.59	0.05	4VG	R. Union, Haiti
	49.59	1	HRLP	R. América, Honduras Rep.
	49.59	0.5	CE605	R. Libertad, Chile
	49.59			R. Tucapel, Chile
	49.59	30	HCJB	La Voz de los Andes, Ecuad.
6055	49.55	100		Praha, Czechoslovakia
	49.55	50		Tallinn, USSR
	49.55	50		Kigali, Rwanda
	49.55	10/50	JOZ2	Tokyo, Japan
	49.55	1/10/100		R. Kuwait, Kuwait
	49.55	0.25	DYH4	Dumaguete City, Philippines
	49.55	250		Greenville, USA
	49.55	1	CP18	R. El Cóndor, Bolivia
	49.55	10	PRB21	R. Panamericaca, Brazil
	49.55	5	HJEX	R. Pacífico, Colombia
	49.55	1	OAX6E	R. Continental, Peru
	49.55	5	CXA53	La Voz de Melo, Uruguay
6060	49.50	7.5		BBC, Limassol, Cyprus
	49.50	5/25		Caltanisetta, Italy
	49.50	50		China, USSR
	49.50	10/20		Lusaka, Zambia
	49.50	120/240		R. Habana, Cuba
	49.50	1	HRU	R. Centro, Honduras Rep.
	49.50	50	LRA31	Buenos Aires, Argentina
	49.50	0.35	HCAC1	La Voz Democracia, Ecuador
6062	49.48	2		Bangkok, Thailand
	49.48	0.25	OAX8L	R. Telesar, Peru
6065	49.46	7.5		BBC, Limassol, Cyprus
	49.46	250		Woofferton (VOA), Gt. Britain
	49.46	100		Hörby, Sweden
	49.46	120		Ashkabad, USSR
	49.46	100	ETLF	Addis Ababa, Ethiopia
	49.46	20/240		R. Peking, China
	49.46	2		AIR Kohima, India
	49.46	10	HLK53	Suwon, Korea
	49.46	50/500		Greenville, USA
	49.46	10	XEXG	R. Dif. México, Mexico
	49.46	10	PRL8	R. Nac. Brasília, Brazil
	49.46	7.5	ZYZ31	R. Rural Brasileira, Brazil
6070	49.42	100		R. Sofia, Bulgaria
	49.42	100		Tema, Ghana
	49.42	4		R. Université, Malagasy Rep.
	49.42	4		Ziguinchor, Sénégal
	49.42	0.5	8FW3	Sukarnopura, Indonesia
	49.42	10/50		Karachi, Pakistan
	49.42	1	HSK5	R. Thailand, Thailand
	49.42	1	CFRX	Toronto, Canada
	49.42	0.5	HCIW5	R. El Mercurio, Ecuador

kHz	m	kW	Call	Stations & Countries
6070	49.42	1.3	OAX4S	R. Onda Popular, Peru
6075	49.38	100	DMQ6	Deutsche Welle, Germany
	49.38	7.5/5		Athens Greece
	49.38	50		Volgograd, USSR
	49.38	250		R. RSA, So. Africa
	49.38	10		Colombo, Ceylon
	49.38	35/100		Okinawa (VOA), Ryukyu Isl.
	49.38	0.5	HIDB	R. Libertad, Dominican Rep.
	49.38	0.15	4VEA	La Voix du Nord, Haiti
	49.38	5	HRMH	La Voz del Junco, Honduras
	49.38	1	YMXB	R. Tisscy, Nicaragua
	49.38	5	CE607	Soc. Nac. de Minería, Chile
	49.38	10	HJCT	Acción Cult. Popular, Col.
	R49.38	1	TISRHB	R. Popular, Costa Rica
	49.38	2.5	CXA3	R. Ariel, Uruguay
6078	49.36	0.2	4VSC	La Voix de St. Marc, Haiti
6080	49.34	50/100		R. Berlin Int, Germany
	49.34	75/100		BBC London, Gt. Britain
	49.34	250		Woofferton (VOA), Gt. Brit.
	49.34	10	CSB51	R. Cl. Portuguese, Portugal
	49.34	20		Komsomolskamur, USSR
	49.34	50		Alger, Algeria
	49.34			Hailar, Inner Mongolia
	49.34	100		R. Japan, Japan
	49.34	7.5		BBC Tebrau, Malaysia
	49.34	7.5	ZL7	Wellington, New Zealand
	49.34	0.01	CFKX	Vancouver, Canada
	49.34	0.5	TGSMA	R. Nacional San Marcos, Guat.
	49.34	1	4VHW	R. Haiti, Haiti
	49.34	1	HRME	R. El Patio, Honduras Rep.
	49.34	10	HCDG2	R. Bolivar, Ecuador
6082	49.32	150	OAX4Z	R. Nacional, Lima, Peru
6085	49.30	10	DMR24	Munich (BR), Germany
	49.30	50/100		R. Nederland, Holland
	49.30	50		Tallinn, USSR
	49.30	10		R. Kisangani, Congo (D.R.)
	49.30	100	VUM	AIR, Madras, India
	49.30	300		R. Nederland, Neth. Antilles
	49.30	15	ZYK2	R. Jornal do Comercio, Brazil
	49.30	1	HJDX	Ecos de Pasto, Colombia
6090	49.26	120		R. Tirana, Albania
	49.26	75/100		BBC London, Gt. Britain
	49.26	50		R. Luxembourg, Luxembourg
	49.26	50		Irkutsk, USSR
	49.26	10	ELBC	Liberia Bc. Corp, Liberia
	49.26	10		R. TV Kaduna, Nigeria
	49.26	50		R. Cambodia, Cambodia
	49.26	3	BEC26	Taipei, Taiwan
	49.26	2	VLI6	Sydney, Australia
	49.26	20	HISD	R. TV Dominicana, Dom. Rep.
	49.26	1	HRNQ	R. Morazán, Honduras Rep.
	49.26	1	XECMT	R. Mante, Mexico
	49.26	40/100	LRY1	R. Belgrano, Argentina
	49.26	0.5	HCVM6	R. Once de Noviembre, Ec.
6095	49.22	50/240		R. Tirana, Albania
	49.22	20/50		R. Liberty, Germany
	49.22	250		Wofferton (VOA), Gt. Britain
	R49.22	50		Mogadiscio, Somali Rep.
	49.22	100		R. RSA, So. Africa
	49.22	100		Baghdad, Iraq
	49.22	25	ZYB7	R. Dif. de São Paulo, Brazil
	49.22	1	HJIW	Voz del Centro, Colombia
	49.22	10	OAX4H	R. Oficial del Congreso, Peru
6097	49.20	1	HSK5	R. Thailand, Thailand
6100	49.18	100	DMQ6	Deutsche Welle, Germany
	49.18	100		R. Belgrade, Yugoslavia
	49.18	50		Vladivostok, USSR
	49.18	0.25	4VO	R. Lumière, Haiti
	49.18			Voix de l'Ave Maria, Haiti
	49.18	0.5	YNHC	R. Hernández, Nicaragua
	49.18	1	CL610	R. Calama, Chile
	49.18	1	HCSP4	La Voz del Volante, Ecuador
6103	49.15	20/240		R. Peking, China
6105	49.14	100		Praha, Czechoslovakia
	49.14	10		R. Free Europe, Germany
	49.14	100		Lvov, USSR
	49.14	50		Mogadiscio, Somali Republic
	49.14	100	8FB63	Djakarta, Indonesia
	49.14	5		Ulan Bator, Mongolia
	49.14	7.5	BEC61	Air Force St, Taiwan
	R49.14	7.5		Voix de la Rev. Duv, Haiti
	49.14	0.25	XEQM	Mérida, Mexico
	49.14	5	ZYN6	Ceará R. Clube, Brazil
	49.14	5	HJNV	R. Visión, Colombia
	49.14	1	OAX6F	R. Nacional Tacna, Peru
6107	49.12	20/240		R. Peking, China
6110	49.10	100/250		BBC London, Gt. Britain
	49.10	50		Baku, USSR
	49.10	0.5	TGQA	R. Nac. Quezaltenango, Guat.
	49.10	1	HRXW	R. Comayagüela, Honduras
	49.10	50		TWR Bonaire, Neth. Antilles
	49.10	1	ZPA11	R. Charitas, Paraguay
	49.10	10	YVPN	Escuelas Radiofónicas, Venezuela
	49.10	1	YVNK	R. Cabimas, Venezuela
6115	49.06	5/20		Deutschlandsender, Germany
	49.06	50		R. Free Europe, Germany
	49.06	50		Khabarovsk, USSR
	49.06	50		R. TV Congolaise, Congo

kHz	m	kW	Call	Stations & Countries
6115	49.06	10		R. Clube de Moçambique
	49.06	1	XEUDS	R. Univ. de Sonora, Mexico
	49.06	100	ZYC7	R. Tamoio, Brazil
	49.06	5	CE611	Soc. Nac. de Agric, Chile
	49.06	1	HJIQ	La Voz del Llano, Colombia
	49.06	10	OBZ4O	R. Unión, Peru
	49.06	1	CXA73	R. Clarin, Uruguay
6120	49.02	120		R. Tirana, Albania
	49.02	7.5		BBC, Limassol, Cyprus
	49.02	15	OIX7	Pori, Finland
	49.02	100	DMQ6	Deutsche Welle, Germany
	49.02	75/100		BBC London, Gt. Britain
	49.02	100		Schwarzenburg, Switzerland
	49.02	50		Sverdlovsk, USSR
	49.02	10		AIR Hyderabad, India
	49.02	10		Rawalpindi, Pakistan
	49.02	50	DZF4	Call of the Orient, Philipp.
	49.02	2.5	4VE	R. St. 4VEH, Haiti
	49.02	0.5	XETS	R. XETS, Mexico
	49.02	1	YNCA	R. Atlanta, Nicaragua
	49.02	10	LRX1	R. El Mundo, Argentina
6123	49.01	1	OCX4A	R. La Cronica, Peru
6125	48.98	100	ORU	Wavre, Belgium
	48.98	75/100		BBC London, Gt. Britain
	48.98	250		Woofferton (VOA), Gt. Brit.
	48.98	10		R. Kasai, Congo Dem. Rep.
	48.98	35/100		Tanger (VOA), Morocco
	48.98	20/240		R. Peking, China
	48.98	50/500		Greenville, USA
	48.98	1	HRQ	La Voz de Suyapa, Honduras
	48.98	1	CP15	R. El Cóndor, Bolivia
	48.98	7.5	PRG9	R. Nac. de São Paulo, Brazil
	48.98	1	HJKE	R. Continental, Colombia
	48.98	10	CXA4	S.O.D.R.E, Uruguay
6128	48.96	0.1	OAX7A	R. Cuzco, Peru
6130	48.94	100	DMQ6	Deutsche Welle, Germany
	48.94	10	LKJ	R. Norway, Norway
	48.94	100		R. Nacional, Spain
	48.94	50		Moscow, USSR
	48.94	50		Vladivostok, USSR
	48.94	100		Tema, Chana
	48.94	20/240		R. Peking, China
	48.94	10		Colombo, Ceylon
	48.94	10		AIR Gauhati, India
	48.94	25		Vientiane, Laos
	48.94	0.5	CHNX	Halifax, Canada
	48.94	0.25	HCFB2	R. Cóndor, Ecuador
	48.94	30	HCJB	La Voz de los Andes, Ecuador
6135	48.90	50/240		R. Tirana, Albania
	48.90	50/100		Warsaw, Poland
	48.90	50		Alma Ata, USSR
	48.90	250		R. RSA, So. Africa
	48.90	1	YDY	Samarinda, Indonesia
	48.90	10		R. Malaysia, Malaysia
	48.90	4		Papéete, Tahiti
	48.90	120/240		R. Habana, Cuba
	48.90	1	HRME	E. El Patio, Honduras Rep.
	48.90	1	CP30	R. Sta. Cruz, Bolivia
	48.90	10	PRC21	R. TV Gaúcha, Brazil
	48.90	10	CE613	Concepción, Chile
	48.90	0.5	OCX4M	R. Pasco, Peru
6140	48.86	100		BBC London, Gt. Britain
	48.86	100		R. Nacional, Spain
	48.86	10		Bujumbura, Burundi
	48.86	100		R. Japan, Japan
	48.86	10		Peshawar, Pakistan
	48.86	10	VLW6	Perth, Australia
	48.86	1	XEUDS	Hermosillo, Mexico
	48.86	0.5	CP81	R. Luis de Fuentes, Bolivia
	48.86	1	HJNE	R. El Sol, Colombia
	48.86	0.02	OAX9B	R. Amazonas, Peru
	48.86	0.2	OAX1A	R. Délcar, Peru
6145	48.82	100	DMQ6	Deutsche Welle, Germany
	48.82	100		Moscow, USSR
	48.82	100		Vatican Radio
	48.82	50/100		Cairo, United Arab Rep.
	48.82	1	HRXE	R. Mil Treinta, Hon. Rep.
	48.82	50	PRL9	R. Nacional Rio, Brazil
	48.82	1	HJEQ	La Voz del Cauca, Colombia
	48.82	0.5	OAZ4E	R. Mineria, Peru
6148	48.80	10	CXA20	R. Monte Carlo, Uruguay
6150	48.78	250		Wofferton (VOA), Gt. Brit.
	48.78	120		R. Bucarest, Rumania
	48.78	10		R. Belgrade, Yugoslavia
	48.78	1	CR6RF	R. Clube de Benguela, Angola
	48.78	10	VUB	AIR Bombay, India
	48.78	2.7		Matè, Maldive Fsl.
	48.78	10	VLR6	Melbourne, Australia
	48.78	1	TIJCV	R. Guapiles, Costa Rica
	48.78	5	CE615	La Voz de Chile, Chile
	48.78	2	OBX4G	R. Excelsior, Peru
6155	48.74	50/240		R. Tirana, Albania
	48.74	100	OE121	Vienna, Austria
	48.74	3	CSB52	R. Renascença, Portugal
	48.74	50		Lvov, USSR
	48.74	4/100		Lomé, Togo
	48.74	20/240		R. Peking, China
	48.74			Lanchow, China
	48.74	7.5		R. Tabriz, Iran
6155	48.74	50		Baghdad, Iraq
	48.78	10		Tokyo (FEN), Japan
	48.74	50		R. Singapura, Singapore
	48.74	0.25	4VWB	R. Citadelle, Haiti
	48.74	1	CP12	R. Fides, Bolivia
	48.74	1	OAX8Q	R. Pucallpa, Peru
	48.74	10	CXA13	R. Carve, Uruguay
6160	48.70	120		R. Tirana, Albania
	48.70	50		Sebaa-Aioun, Morocco
	48.70	1	HSK4	R. Thailand, Thailand
	48.70	0.5	CKZU	Vancouver, Canada
	48.70	0.3	CKZN	St. John's, Canada
	48.70	10	HJKJ	Emis Nueva Granada, Col.
	48.70	1	OCX4G	R. Mundo, Peru
6165	48.66	250		Schwarzenburg, Switzerland
	48.66	100		Kiev, USSR
	48.66	10/20		Lusaka, Zambia
	48.66	20		Damascus, Syria
	48.66	20/200		Saigon, Vietnam
	48.66	1	HRTV	R. Televisión, Hon. Rep.
	48.66	10	XEWW	Voz América Latina, Mexico
	48.66	7.5	ZYR58	R. Dif. São Paulo, Brazil
	48.66	0.4	OAX2A	R. Trujillo, Peru
6170	48.62	50		R. Liberty, Germany
	48.62	75		BBC London ,Gt. Britain
	48.62	7.5/5		Athens, Greece
	48.62	100	ETLF	Addis Ababa, Ethiopia
	48.62	5		Ulan Bator, Mongolia
	48.62	10		AIR Lucknow, India
	48.62	10	8FK35	Padang, Indonesia
	48.62	0.5		Seoul (Army), Korea, Rep.
	48.62	50		Malolos (VOA), Philippines
	48.62	7.5/50	DUH2	Philipp. Bc. Sce, Philippines
	48.62	4		Cayenne, Fr. Guiana
	48.62	1	CE617	R. Universidad, Chile
	48.62	1	HJDD	R. Valledupár, Colombia
	48.62	0.25	HCPJ2	R. Fluminense, Ecuador
	48.62	0.35	OBX4B	R. Corporación, Peru
	48.62	1	CXA21	R. Fenix, Uruguay
	48.62	10	YVKG	R. Nacional, Venezuela
6175	48.58	100		Allouis, France
	48.58	120		Kazan, USSR
	48.58	50		Alger, Algeria
	48.58	20		Kaduna (NBC), Nigeria
	48.58	100		R. Malaysia, Malaysia
	48.58	0.5	4VPJ	R. Diff. Capoise, Haiti
	48.58	10	ZYV74	R. Guarani, Brazil
	48.58	0.3	OAX7C	R. Tahuantisuyo, Peru
6176	48.56			Sian, China
6180	48.54	120		R. Tirana, Albania
	48.54	75		BBC London, Gt. Britain
	48.54	50		Tashkent, USSR
	48.54	50/250		Monrovia (VOA), Liberia
	48.54	7.5		R. Clube de Moçambique
	48.54	20/240		R. Peking, China
	48.54	10	TGWB	La Voz de Guatemala
	48.54	10	LRA34	R. Nac. Mendoza, Argentina
	48.54	0.5	OBX4P	R. Miraflores, Peru
6183	48.52	50	HJWT	R. Nacional, Colombia
6185	48.50	100	DMQ6	Deutsche Welle, Germany
	48.50	10	LLI	R. Norway, Norway
	48.50	10/100	CSA29	R. Nacional, Portugal
	48.50	50		Riazan, USSR
	48.50	100		Addis Ababa, Ehtiopia
	48.50	10		Colombo, Ceylon
	48.50	100/250		Dixon, USA
	48.50	0.1	HIAU	L V de la Libertad, Dom. Rep.
	48.50	1	HRMT	R. Molina Rojo, Hon. Rep.
	48.50	1	XEICM	La Voz del Maestro, Mexico
	48.50	1	CP9	R. Amauta, Bolivia
	48.50	10	ZYR77	R. Bandeirantes, Brazil
6190	48.47	5	DRM23	R. Bremen, Germany
	48.47	120		R. Bucharest, Rumania
	48.47	15		Petropavlo, USSR
	48.47	80/100		Vatican Radio
	48.47	10/100	VUD	AIR Delhi, India
	48.47	250		Grenville, USA
	48.47	1	TGFT	R. Nac. Tikal, Guatemala
	48.47	10	CE6f9	R. Corporación, Chile
	48.47	0.4	OAX4G	R. Lima, Peru
6195	R48.43	50/240		R. Tirana, Albania
	48.43	100		BBC London, Gt. Britain
	48.43	50		Baku, USSR
	48.43	50		R. Tunis, Tunisia
	48.43	1	HLK60	Christian Bc. Sce, Korea
	48.43	1	4VHW	R. Haiti, Haiti
	48.43	1	CP71	R. Universo, Bolivia
	48.43	10	PRD21	Emis, Continental, Brazil
	48.43	1	HJEZ	La Voz de Cali, Colombia
	48.43	1.5	HCEH6	R. Cosmopolita, Ecuador
6198	48.40	0.3	OAX1B	R. Sudamericana, Peru
6200	R48.39	50/100		R. Tirana, Albania
	48.39	50		Vilnius, USSR
	48.39	1	YNJM	R. Norte, Nicaragua
6205	R48.35	0.5	TGFP	R. Nacional Tikal, Guat.
6207	48.33	1	TIHGB	R. Reloj, Costa Rica
				6210-7100kHz
6210	48.31	120/240		R. Peking, China
6220	R48.23	0.3	OAX7C	R. Tahuantisuyo, Peru

kHz	m	kW	Call	Stations & Countries
6225	48.19	120/240		R. Peking, China
6230	48.15	50/100		Cairo, U.A.R.
6234	48.10	5/135		R. Budapest, Hungary
6240	R48.08	0.5	HCNK3	R. Cariamanga, Ecuador
6245	48.04	120		R. Sofia Bulgaria
	48.04	20/240		R. Peking, China
6250	48.00	10	EAJ206	Emis Sta. Isabel, Guinea
	48.00	120/240		Pyongyang, Korea
	R48.00	1	OAXJA	R. Cuzco, Peru
6260	47.92			Sining, China
6275	47.81	20/240		R. Peking, China
6280	47.77	1		Istanbul, Turkey
6290	47.69	120/240		R. Peking, China
	47.69	120/240		Pyongyang, Korea
6320	47.47	20/240		R. Peking, China
6325	47.43	20/240		R. Peking, China
6330	47.39	20/240		R. Peking, China
6335	47.36	20/240		R. Peking, China
6340	47.32	20/240		R. Peking, China
6345	47.28	120/240		R. Peking, China
6370	47.10	20/240		R. Peking, China
6383	47.00	50		Ulan Bator, Mongolia
6390	46.95	20/240		R. Peking, China
6398	46.90			Fukien, China
6400	46.88	20/240		R. Peking, China
6410	46.81	20/240		R. Peking, China
†6428	46.67	10	VHP3	Belconnen, Australia
†	46.67		NPG	San Francisco, USA
6430	46.66	20/240		R. Peking, China
†6475	46.33	5	DAM	Elmshorn, Germany
6480	46.30	120/240		Pyongyang, Korea
6500	46.15			Sining, China
6520	46.00	0.4		R. Gorgan, Iran
	46.00	20/240		R. Peking, China
6525	45.98	20/240		R. Peking, China
6540	45.87	20/240		R. Peking, China
	45.87	120/240		Pyongyang, Korea
6550	45.80	20/240		R. Peking, China
6560	45.73	20/240		R. Peking, China
6575	45.63	20/240		R. Peking, China
6590	45.52	20/240		R. Peking, China
6600	45.45	120/240		Pyongyang, Korea
6610	45.39	20/240		R. Peking, China
6620	45.32	20/240		R. Peking, China
6645	45.15	20/240		R. Peking, China
6660	45.04	0.2		R. Kukësi, Albania
6710	44.71	20/240		R. Peking, China
	R44.71			R. Delcar, Peru
6715	44.68	20/240		R. Peking, China
6720	44.64	20/240		R. Peking, China
6730	44.58	20/240		R. Peking, China
6750	44.44			R. Peking, China
6760	44.38	20/240		R. Peking, China
6770	44.31	50		Alma Ata, USSR
6790	44.18	20/240		R. Peking, China
6810	44.05	20/240		R. Peking, China
6818	44.01	0.4		R. Sanandaj, Iran
6825	43.96	50		Tashkent, USSR
	43.96	20/240		R. Peking, China
6840	43.86			Huhehot, Inner Mongolia
6850	43.80	0.35		Pathfinders St, Poland
6860	43.73	20/240		R. Peking, China
6870	43.64	50		Alma Ata, USSR
6890	43.54	20/240		R. Peking, China
6915	43.38	20/240		R. Peking, China
6937	43.25			Kunming, China
6940	43.20	0.5		R. Rezaieh, Iran
6955	43.13	20/240		R. Peking, China
6975	43.01			Huhehot, Inner Mongolia
6995	42.99	120/240		R. Peking, China
7005	42.83	120/240		R. Peking, China
7025	42.70	20/240		R. Peking, China
7035	42.64	120/240		R. Peking, China
7050	42.55	50/100		Cairo, Un. Arab Rep.
7055	42.52	20/240		R. Peking, China
7060	42.49	20/240		R. Peking, China
7064	42.46	100		R. Iran, Iran
7065	R42.46	50/240		R. Tirana, Albania
	42.46	20/240		R. Peking, China
	42.46	0.01	HL2AW	Taegu, Korea (Rep.)
7070	42.42	20/240		R. Peking, China
7075	42.40	50/100		Cairo, Un. Arab. Rep.
	42.40	20/240		R. Peking, China
7080	42.37	120/240		R. Peking, China
7090	R42.31	50/240		R. Tirana, Albania
7095	42.28	50/100		Cairo, Un. Arab Rep.
	42.28	20/240		R. Peking, China
				7100-7300kHz (41 metre band)
7100	42.25	5		R. Budapest, Hungary
	42.25	7.5	YDJ2	Jogjakarta, Indonesia
	42.25	0.25	TAO6	Izmir, Turkey
7105	42.22	50		Rhodes (VOA), Greece
	42.22	100		R. Nacional, Spain
	42.22	250		BBC, Ascension Island
	42.22	4		R. Brazzaville, Congo
	42.22	35/100		Tanger (VOA), Morocco
	42.22	4		Tananarive, Malagasy Rep.
	42.22	35		Colombo (VOA), Ceylon
	42.22	10/100	VUD	AIR Delhi, India
7105	42.22	5		R. Nepal, Nepal
	42.22	50		Damascus, Syria
	42.22	2.5		Bangkok, Thailand
	42.22	1		Thai TV Co. Thailand
7110	42.19	250		BBC London, Gt. Britain
	42.19	50/100		R. Nederland, Holland
	42.19	50		Omsk, USSR
	42.19	50		Tula, USSR
	42.19	3/8		Kampala, Uganda
	42.19	20/240		R. Peking, China
	42.19	50		R. Malaysia, Malaysia
7115	42.16	10		R. Free Europe, Germany
	42.16	0.5	CR6RE	R. Cl. de Melanje, Angola
	42.16	50		Kinshasa, Congo Dem. Rep.
	42.16	10		Sebaa Aioun, Morocco
	42.16	20/240		R. Peking, China
7120	42.13	50/240		R. Tirana, Albania
	42.13	7.5		BBC, Limassol, Cyprus
	42.13	75/250		BBC London, Gt. Britain
	42.13	50		Tula, USSR
	42.13	10		R. Somali, Somalia
	42.13	20/240		R. Peking, China
	42.13	10/100	VUD	AIR Delhi, India
	42.13	100	VUB	AIR Bombay, India
	42.13	10		Denpassar, Indonesia
	42.13	50	XZK4	Rangoon, Burma
	42.13	7.5/75		BBC, Tebrau, Malaysia
	42.13	5		Ulan Bator, Mongolia
7125	42.11	15/100		Warsaw, Poland
	42.11	1	CR6RD	R. Cl. do Huambo, Angola
	42.11	18		Conakry, Guinea
	42.11	5		Nairobi, Kenya
	42.11	10/100	VUD	AIR Delhi, India
	42.11	10/50		Karachi, Pakistan
7130	42.08	100	DMQ7	Deutsche Welle
	42.08	250		BBC London, Gt. Britain
	42.08	50		Rhodes (VOA), Greece
	42.08	50/60/100		R. Roma, Italy
	42.08	50/100	CSA55	R. Nacional, Portugal
	42.08	50		Krasnoyarsk, USSR
	42.08	50		Minsk, USSR
	42.08	0.25		Nampula, Moçambique
	42.08	50	BED7	Taipei (BCC), Taiwan
7135	42.05	30		R. Monte Carlo, Monaco
	42.05	250		Monrovia (VOA), Liberia
	42.05	10/50		Karachi, Pakistan
7140	42.02	20		BBC, Limassol, Cyprus
	42.02	75		BBC London, Gt. Britain
	42.02	7.5/5		Athens, Greece
	42.02	240		Riga, USSR
	42.02	0.5	CR6RA	R. Clube de Angola, Angola
	42.02	10		AIR Hyderabad, India
	42.02	10	YDR2	Ambon, Indonesia
	42.02	100		R. Japan, Japan
7143	42.01	1.6	TAO5	Istanbul, Turkey
7145	41.99	20/50		R. Liberty, Germany
	41.99	40/100		Warsaw, Poland
	41.99	100		Novosibirsk, USSR
	41.99	100		Tula, USSR
	41.99	0.25		Quelimane, Mocambique
	41.99	20/10		R. Malaysia, Sarawak
7150	41.96	100		BBC London, Gt. Britain
	41.96	240		Lvov, USSR
	41.96	100		Serpukhov, USSR
	41.96	10		R. Comercial, de Angola
	41.96	0.25		Porto Amélia, Moçambique
	41.96	20/240		R. Peking, China
	41.96	10		AIR Gauhati, India
	41.96	2.7		Malé, Maldive Islands
	41.96	3	BED35	Taipei (BCC), Taiwan
7155	41.92	50		R. Liberty, Germany
	41.92	75		BBC London, Gt. Britain
	41.92	0.25		Joannina, Greece
	41.92	100		Vatican Radio
	41.92	4		Tananarive, Malagasy Rep.
	41.92	4		R. Niger, Niger
	41.92	20/240		R. Peking, China
	41.92	100		Amman, Jordan
7160	41.90	100		Allouis, France
	41.90	50/60/100		R. Roma, Italy
	41.90	100		Lvov, USSR
	41.90	35/100		Tanger (VOA), Morocco
	41.90	10	VUM	AIR Madras, India
	41.90	2		R. Kashmir, India
	41.90	1	DUH9	R. University, Philippines
	41.90	35/100		Okinawa (VOA), Ryukyu Isl.
	41.90	20/10		R. Malaysia, Sarawak
	41.90	250		Darwin (ABC), Australia
7161	41.90	1		Serrae, Greece
7165	41.87	20		R. Free Europe, Germany
	41.87	50/100		R. Nederland, Holland
	41.87	100		El Beida, Libya
	41.87	20		R. Tanzania, Tanzania
	41.87			Foochow, China
	41.87	10/100	VUD	AIR Delhi, India
	41.87	0.5		Sorong, Indonesia
	41.87	35		Okinawa (VOA), Ryukyu Isl.
7170	41.84	250		Woofferton (VOA), Gt. Brit.
	41.84	120		Moscow, USSR

kHz	m	kW	Call	Stations & Countries
7170	41.84	50		Alger, Algeria
	41.84	20/240		R. Peking, China
	41.84	2		AIR Kohima, India
	41.84	10		Peshawar, Pakistan
	41.84	10		R. Singapura, Singapore
	41.84	4		R. Nouméa, New Caledonia
7175	41.81	5		Caltanisetta, Italy
	41.81	120		R. Bucharest, Rumania
	41.81	120		Starobelsk, USSR
	41.81	25		R. TV Congolaise, Congo
	41.81	50/250		Monrovia (VOA), Liberia
	41.81	10		Gwelo, Rhodesia
	41.81	50	YDB3	Djakarta, Indonesia
	41.81	10		Saigon, Vietnam
7180	41.78	100		Allouis, France
	41.78	250		R. Liberty, Spain
	41.78	10		AIR Bhopal, India
	41.78	100		Baghdad, Iraq
	41.78	0.5	BEG20	Taipei, Taiwan
7185	41.75	5		Deutschlandsender, Germany
	41.75	75		BBC London, Gt. Britain
	41.75	50		Blagovechensk, USSR
	41.75	50		Sverdlovsk, USSR
	41.75	50		Kinshasa, Congo Dem. Rep.
	41.75	250		R. RSA, South Africa
	41.75	20		Damascus, Syria
	41.75	35	BED70	Taipei (BCC), Taiwan
7189	41.73	20	4XB49	Tel Aviv, Israel
7190	41.72	10		R. Free Europe, Germany
	41.72	20/240		R. Peking, China
	41.72	10		Colombo, Ceylon
	41.72	10		Sukarnopura, Indonesia
	41.72	1	HLK30	Seoul, Korea
	41.72	10		R. Australia, Australia
7195	41.70	120		R. Bucharest, Rumania
	41.70	50		Tula, USSR
	41.70	250		Monrovia (VOA), Liberia
	41.70	100		R. Clube de Moçambique
	41.70	20		Paradys, So. Africa
	41.70	3/8		Kampala, Uganda
	41.70	10/100	VUD	AIR Delhi, India
	41.70	100		R. Japan, Japan
7200	41.67	120		R. Tirana, Albania
	41.67	250		Woofferton (VOA), Gt. Brit.
	41.67	100		R. Belgrade, Yugoslavia
	71.67	50		Omdurman, Sudan
	41.67	50		R. Afghanistan, Afghanistan
	41.67	20/240		R. Peking, China
	41.67	1		Djakarta, Indonesia
	41.67	10		R. Malaysia, Malaysia
	41.67	10	BEC76	Taipei, Taiwan
7203	41.65	1	CR6RO	R. Clube do Bie, Angola
7205	41.64	35		Thessaloniki (VOA), Greece
	41.64	100		Moscow, USSR
	41.64	7.5		Lubumbashi, Congo D.R.
	41.64	10	CR7RB	R. Pax, Moçambique
7210 R	41.61	50/240		R. Tirana, Albania
	41.61	7.5		BBC, Limassol, Cyprus
	41.61	75/250		BBC London, Gt. Britain
	41.61	50/100		R. Nederland, Holland
	41.61	10		Tromsø, Norway
	41.61	0.4		Ukesenderen, Norway
	41.61	25/100		Schwarzenburg, Switzerland
	41.61	50		Vladivostok, USSR
	41.61	10		Nairobi, Kenya
	41.61	4		Dakar, Sénégal
	41.61	10	VUC	AIR Calcutta, India
	41.61			Hanoi, Vietnam (Dem. Rep.)
7215	41.58	0.5		Kozani (FBS), Greece
	41.58	50/100		Cairo, United Arab Rep.
	41.58	1		R. Abidjan, Ivory Coast
	41.58	10/100	VUD	AIR Delhi, India
	41.58	10/50		Karachi, Pakistan
	41.58	1		AFNT, Taiwan
7220	41.55	20/50		R. Liberty, Germany
	41.55	5		R. Budapest, Hungary
	41.55	35/100		Tanger (VOA), Morocco
	41.55	10/20		Lusaka, Zambia
	41.55	50		Riyadh, Saudi Arabia
	41.55	100		R. Australia, Australia
7225	41.52	120		R. Bucharest, Rumania
	41.52	10		R. St. ELWA, Liberia
	41.52	10		Sebaa-Aioun, Morocco
	41.52	10/100	VUD	AIR Delhi, India
	41.52	10		Quetta, Pakistan
	41.52	2	DZI9	Call of the Orient, Philippines
7230	41.49	7.5		BBC, Lmassol, Cyprus
	41.49	75/250		BBC London, Gt. Britain
	41.49	100		Trans World Radio, Monaco
	41.49	100		Kiev, USSR
	41.49	0.75	CR6RM	R. Cl. de Moçamedes, Ang.
	41.49	0.3		Beira, Moçambique
	41.49	20		Paradys, S. Africa
	41.49	20/240		R. Peking, China
	41.49	10		AIR Kurseong, India
	41.49	1		Biak, Indonesia
	41.49	5	JKH	Tokyo (NHK), Japan
	41.49	10	JOZ6	Tokyo, Japan
7235	41.47	15/100		BBC London, Gt. Britain
7235	41.47	100		R. Roma, Italy
	41.47	7.5		BBC Tebrau, Malaysia
	41.47	10/50		Karachi, Pakistan
	41.47	35/100		Okinawa (VOA), Ryukyu Isl.
	41.47	50/20		Damascus, Syria
7240	41.44	100		Trans World Radio, Monaco
	41.44	100	LLR	R. Norway, Norway
	41.44	50		Chita, USSR
	41.44	240		Tula, USSR
	41.44	4/30		R. Garoua, Cameroon
	41.44	10		Nairobi, Kenya
	41.44	0.3		Beira, Moçambique
	41.44	120		Lusaka, Zambia
	41.44	20/240		R. Peking, China
	41.44	10	VUB	AIR Bombay, India
	41.44	7.5	YDP3	Medan, Indonesia
	41.44	10/50		Karachi, Pakistan
	41.44	1.5	BEC28	Taipei, Taiwan
7245	41.41	100	OEI33	Vienna, Austria
	41.41	100		Trans World Radio, Monaco
	41.41	10	CR6RZ	Emiss. Oficial, Angola
	41.41	4		R. Mauritania, Mauritania
	41.41	4		St. Denis, Réunion
	41.41	20		Saigon, Vietnam
7250	41.38	10		R. Free Europe, Germany
	41.38	250		Woofferton (VOA), Gt. Brit.
	41.38	240		Tula, USSR
	41.38	100		Vatican Radio
	41.38	20/240		R. Peking, China
	41.38	10		AIR Lucknow, India
	41.38	7.5		R. Singapura, Singapore
	41.38	10	BED21	Taipei (BCC), Taiwan
7255	41.35	100		Allouis, France
	41.35	50		R. Sofia, Bugaria
	41.35	100		Trans World Radio, Monaco
	41.35	10		Lagos (NBC), Nigeria
	41.35	0.25		Nampula, Moçambique
	41.35	10/100	VUD	AIR Delhi, India
7260	41.32	100		Allouis, France
	41.32	75		BBC London, Gt. Britain
	41.32	100		Trans World Radio, Monaco
	41.32	100		Minsk, USSR
	41.32	4		Moroni, Comoro Isl.
	41.32	20		Paradys, So. Africa
	41.32	100	VUM	AIR Madras, India
	41.32	3.5	BEC71	Air Force St, Taiwan
	41.32	50		Ulan Bator, Mongolia
	41.32	0.5	YJB7	R. Port Vila, New Hebrides
7265	41.29	50/240		R. Tirana, Albania
	41.29	1.5	DRM32	Rohrdorf (SWF), Germany
	41.29	240		Riazan, USSR
	41.29	50/100		Cairo, United Arab Rep.
	41.29	4/100		Lomé, Togo
	41.29	20/240		R. Peking, China
7270	41.27	250		Woofferton (VOA), Gt. Brit.
	41.27	50		Rhodes (VOA), Greece
	41.27	50		Erevan, USSR
	41.27	35/100		Tanger (VOA), Morocco
	41.27	250		R. RSA, So. Africa
	41.27	20/240		R. Peking, China
	41.27	1		R. Kashmir, India
	41.27	20/10		R. Malaysia, Sarawak
	41.27	1.5	BEC28/34	Taipei, Taiwan
7275	41.24	100	DMQ7	Deutsche Welle, Germany
	41.54	60		R. Roma, Italy
	41.54	100		Minsk, USSR
	41.24			Benghazi, Libya
	41.24	100		Lagos (NBC), Nigeria
	41.24	10/35		Colombo (VOA), Ceylon
	41.24	10/50		Karachi, Pakistan
	41.24	35/100		Poro (VOA), Philippines
7280	41.21	100		Allouis, France
	41.21	75/100		BBC London, Gt. Britain
	41.21	100		Komsomolsk, USSR
	41.21	200		Moscow, USSR
	41.21	250		Monrovia (VOA), Liberia
	41.21	10		R. Tanzania, Tanzania
	41.21	20/240		R. Peking, China
	41.21	10		AIR Gauhati, India
	41.21	0.5	DXH2	Mindanao Bc, Philippines
	41.21	1.5	BEC24	Taipei, Taiwan
7285	41.18	50		Rhodes (VOA), Greece
	41.18	250		R. Liberty, Germany
	41.18	5		Warsaw, Poland
	41.18	18		R. Mali, Mali
	41.18	0.25		Quelimane, Moçambique
	41.18	20		Gwelo, Rhodesia
	41.18	10/100	VUD	AIR Delhi, India
	41.18	5	JKI	Tokyo (NHK), Japan
7290	41.15	100	DMQ7	Deutsche Welle, Germany
	41.15	35		Thessaloniki, Greece
	41.15	60/100		R. Roma, Italy
	41.15	100		Trans World Radio, Monaco
	41.15	120		Moscow, USSR
	41.15	50		Nikolaievsk, USSR
	41.15	10		Addis Ababa, Ethiopia
	41.15	10/100	VUD	AIR Delhi, India
7295	41.12	120		R. Tirana, Albania
	41.12	10/50		R. Free Europe, Germany

kHz	m	kW	Call	Stations & Countries
7295	41.12	7.5/5		Athens, Greece
	41.12	250		R. Liberty, Spain
	41.12	50		Krasnoyarsk, USSR
	41.12	50		Moscow, USSR
	41.12	10		Gaberones, Botswana
	41.12	20		R. Mbuji-Mayi, Congo D.R.
	41.12	10		Accra, Ghana
	41.12	5		Kisumu, Kenya
	41.12	1	YDS2	Menado, Indonesia
7300	R41.09	50/240		R. Tirana, Albania
	40.09	5		R. Berlin Int, Germany
	41.09	50		Petrozavodsk, USSR
	41.09	20/240		R. Peking, China
	41.09	10		R. Malaysia, Malaysia
7305	41.07	50		Novosibirsk, USSR
	41.07	20/240		R. Peking, China
	41.07	2.5		Bangkok, Thailand
7306	41.06	0.35		Pathfinders St. Poland
			7310-9500kHz	
7310	41.04	50		Sverdlovsk, USSR
7315	R41.01	50/240		R. Tirana, Albania
	41.01	100/240		R. Peking, China
7320	40.98	75/100		BBC London, Gt. Britain
	40.98	100		Minsk, USSR
7323	40.97			Lanchow, Vhina
7325	40.96	100		BBC London, Gt. Britain
	40.96	50		Orsha, USSR
7330	40.93	50		Minsk, USSR
7335	40.94	120/240		R. Peking, China
†7335	40.90	3	CHU	Dominion Observatory, Can.
7340	40.87	50		Krasnoyarsk, USSR
7345	40.85	50		Ulan Bator, Mongolia
	40.85	25		Praha, Czechoslovakia
7350	40.82	50		Minsk, USSR
	40.82	20/240		R. Peking, China
7360	40.76	100		Moscow, USSR
7370	40.71	120/240		R. Peking, China
7385	40.62			Urumchi, China
†7397	40.45	15	GIC27	Hailsham, Gt. Britain
†7428	40.39	6	FTH42	Pontoise, France
7435	40.35	20/240		R. Peking, China
7440	40.32	100		Moscow, USSR
	40.32	20/240		R. Peking, China
7443	40.31	25	HBX37	UN Geneva, Switzerland
7450	40.27	1.75		Istanbul, Turkey
	40.27	120/240		R. Peking, China
7475	40.13	100		Petropavlovsk, USSR
7480	40.13	20/240		R. Peking, China
7490	40.05	20/240		R. Peking, China
7500	40.00	120/240		R. Peking, China
†	40.00	10	VNG	Lyndhurst, Australia
7547	39.71		ZNX35	Bridgetown, Barbados
7560	39.78	20/240		R. Peking, China
7580	39.22	20/240		R. Peking, China
	39.22	120/240		Pyongyang, Korea
7590	39.53	20/240		R. Peking, China
7610	39.42	20/240		R. Peking, China
7620	39.37	20/240		R. Peking, China
7630	39.32	20/240		R. Peking, China
7650	39.53	1		Izmir, Turkey
	39.33	1		Diyarbakir, Turkey
7660	39.16	20/240		R. Peking, China
7670	39.11	15		R. Sofia, Bugaria
7690	39.01	20/240		R. Peking, China
7700	38.96	20/240		R. Peking, China
7720	38.86	20/240		R. Peking, China
7770	38.61	20/240		R. Peking, China
7820	38.36	20/240		R. Peking, China
7883	38.06			Lanchow, China
7888	38.04	0.4		R. Isfahan, Iran
7895	38.00	20/240		R. Peking, China
7925	37.85	20/240		R. Peking, China
7947	37.75	20/240		R. Peking, China
7980	37.59	20/240		R. Peking, China
8000	37.50	0.2	VSI8	Grand Turk Islands
†8090			NSS	Annapolis, USA
†8150	36.81		NPN	Guam
8195	36.61			Fukien, China
8215	36.25	0.2		R. Shkodra, Albania
8240	36.41	20/240		R. Peking, China
8245	36.39	20/240		R. Peking, China
8260	36.32	20/240		R. Peking, China
8270	36.28	20/240		R. Peking, China
8290	36.19	120/240		Pyongyang, Korea D.R.
8300	36.15	20/240		R. Peking, China
8320	36.06	20/240		R. Peking, China
8330	36.01	20/240		R. Peking, China
8345	35.95	20/240		R. Peking, China
8350	35.93	20/240		R. Peking, China
8400	35.71	20/240		R. Peking, China
8425	35.61	20/240		R. Peking, China
8440	35.55	20/240		R. Peking, China
8450	35.50	20/240		R. Peking, China
†8478	35.39	10	VPH4	Belconnen, Australia
8490	35.34	20/240		R. Peking, China
†8558	35.06	CCV		Valparaiso, Chile
8565	35.03	20/240		R. Peking, China
8600	34.88	20/240		R. Peking, China
†8634	34.74		PPR	Rio de Janeiro, Brazil
†8638	34.72	10	DAM	Elmshorn, Germany
8660	34.64	20/240		R. Peking, China
†8721	34.40		PPE	Rio de Janeiro, Brazil
8747	34.30	20/240		R. Peking, China
8940	33.56	20/240		R. Peking, China
8965	33.46	20/240		R. Peking, China
9009	33.30	50/7.5	4XB31	Tel Aviv, Israel
9020	33.26	20/240		R. Peking, China
†9050	33.15		NPM	Honolulu, Hawaii
9060	33.11	120/240		R. Peking, China
9080	33.04	20/240		R. Peking, China
9170	32.72	20/240		R. Peking, China
9245	32.45	20/240		R. Peking, China
9250	32.43	15		Alma Ata, USSR
†9277	32.34		NPG	San Francisco, USA
9290	32.29	20/240		R. Peking, China
9340	32.12	20/240		R. Peking, China
9360	32.05	20/50		R. Nacional, Spain
9365	32.03	120/240		R. Peking, China
9370	32.02	100		R. Nacional, Spain
9380	31.98	15		Alma Atá, USSR
	31.98	20/240		R. Peking, China
9385	31.97	20/240		R. Peking, China
9390	R31.95	50/240		R. Tirana, Albania
	31.95	20/240		R. Peking, China
9395	31.93	120		R. Tirana, Albania
9400	31.91	20/240		R. Peking, China
9410	31.88	100		BBC London, Gt. Britain
9440	31.78	20/240		R. Peking, China
9450	31.79	50/100		Cairo, Un. Arab Rep.
9457	31.77	240		R. Peking, China
9470	31.58	100		Moscow, USSR
	31.58	120/240		R. Peking, China
9475	31.66	50/100		Cairo, Un. Arab Rep.
9480	31.65	50		Komsomolsk, USSR
	31.65	120/240		R. Peking, China
9490	31.61	50		Baku, USSR
	31.61	120/240		R. Peking, China
9495	31.60	50/100		Cairo, Un. Arab Rep.
9498	31.59			Sining, China
			9500-9775kHz (31 metre band)	
9500	31.58	100		R. Berlin Int, Germany
	31.58	100		Magadan, USSR
	31.58	20/240		R. Peking, China
9504	31.56	1	OAX8E	R. Loreto, Peru
9505	R31.56	50/240		R. Tirana, Albania
	31.56	100		Praha, Czechoslovakia
	31.56	100		R. Belgrade, Yugoslavia
	31.56	10/20		Lusaka, Zambia
	31.56	100		R. Japan, Japan
	31.56	50	DZH7	Call of the Orient, Philippines
	31.56	50	HISD	R. TV Dominica, Dom. Rep.
	31.56	1	CP64	R. Universo, Bolivia
	31.56	7.5/50	PRB22	R. Record, Brazil
	31.56	0.2	OAX6H	R. Tacna, Peru
9507	31.55	120		R. Tirana, Albania
9508	31.55	50		Omdurman, Sudan
9510	31.55	75/250		BBC London, Gt. Britain
	31.55	120		R. Bucharest, Rumania
	31.55	50		Alger, Algeria
	31.55	250		BBC, Ascension Island
	31.55	100	VUM	AIR Madras, India
	31.55	20/240		R. Peking, China
	31.55	1	CE951	R. Corporación, Chile
	31.55	5	OAX4V	R. América, Peru
	31.55	10	YVXJ	R. Barquisimeto, Venezuela
9515	31.53	5		Caltanisetta, Italy
	31.53	50		Krasnoyarsk, USSR
	31.53	1	CR6RM	Moçamedes, Angola
	31.53	50/100		Cairo, United Arab Rep.
	31.53	4		Ouagadougou, Upper Volta
	31.53	30		Tananarive, Malagasy Rep.
	31.53	10		R. Malaysia, Malaysia
	31.53	100	TAT	R. Ankara, Turkey
	31.53	10	XEWW	Voz de la Am. Lat, Mexico
	31.53	10	CXA71	R. Sarandi, Uruguay
9520	31.51		OZF5	R. Denmark, Denmark
	31.51	100		Allouis, France
	31.51	250		R. Liberty, Germany
	31.51	150		Armavir, USSR
	31.51	100		Leningrad, USSR
	31.51	20/240		R. Peking, China
	31.51	50		R. Kuwait, Kuwait
	31.51	10	VLT9	Port Moresby, N. Guinea
	31.51	7.5	ZL18	Wellington, New Zealand
	R31.51	1	CE952	R. El Morro, Chile
	31.51	5	OAX4J	R. La Crónica, Peru
9525	31.50	100	OEI49	Vienna, Austria
	31.50	100		BBC London, Gt. Britain
	31.50	50/100		R. Nederland, Holland
	31.50	20/100		Warsaw, Poland
	31.50	50/100		Cairo, United Arab Rep.
	31.50	100	ETLF	Addis Ababa, Ethiopia
	31.50	25		R. Gabon, Gabon
	31.50	250		R. RSA, So. Africa
	31.50	10/100	VUD	AIR Delhi, India
	31.50	100		R. Japan, Japan
	31.50	50/500		Greenville, USA
	31.50	120/240		R. Habana, Cuba

kHz	m	kW	Call	Stations & Countries
9530	31.48	250		Woofferton (VOA), Gt. Brit.
	31.48	240		Moscow, USSR
	31.48	50/250		Monrovia (VOA), Liberia
	31.48	250		R. RSA, So. Africa
	31.48	20		R. Tanzania, Tanzania
	31.48	10/100	VUD	AIR Delhi, India
	31.48	10		AIR Gauhati, India
	31.48	100		R. Japan, Japan
	31.48	100		Amman, Jordan
	31.48	35		Poro (VOA), Philippines
	31.48	50/500		Greenville, USA
	31.48	1	CE953	R. El Morro, Chile
	31.48	1	OAX6G	R. Nacional Tacna, Peru
	31.48	1	YVMZ	Maracaibo, Venezuela
9535	31.46	250		Schwarzenburg, Switzerland
	31.46	100	CR6RZ	Emis. Oficial, Angola
	31.46	10/100	VUD	AIR Delhi, India
	31.46	20/10	-	R. Malaysia, Sarawak
9540	31.45	100		Praha, Czechoslovakia
	31.45	100		Munich (VOA), Germany
	31.45	35		Thessaloniki (VOA), Greece
	31.45	5/8		Warsaw, Poland
	31.45	200		Petropavlovsk, USSR
	31.45	100		Tashkent, USSR
	31.45	20		R. Lubumbashi, Congo (DR)
	31.45	20/240		R. Peking, China
	31.45	50		Ulan Bator, Mongolia
	31.45	50	HLK5	Suwon (KBS), So. Korea
	31.45	100		R. Australia, Australia
	31.45	7.5	ZL2	Wellington, New Zealand
9545	31.43	100	DMQ9	Deutsche Welle, Germany
	31.43	100		Vatican Radio
	31.43	100	-	Tema, Ghana
	31.43	100		Beyrouth, Lebanon
	31.43	7.5	4VC	Voix de la Rev. Duv, Haiti
	31.43	0.25	XEFT	La Voz de V. Cruz, Mexico
	31.43	100/250		Delano, USA
	31.43	7.5	ZYZ43	R. Emis. Paranaense, Brazil
	31.43	0.5	OAX4K	R. Central, Peru
9550	31.41	15	OIX2	Pori, Finland
	31.41	100/120	LLD	R. Norway, Norway
	31.41	15/100		Warsaw, Poland
	31.41	120		Moscow, USSR
	31.41	100		R. Tanzania, Tanzania
	31.41	50/100		Cairo, United Arab Rep.
	31.41	10		R. Tanzania, Tanzania
	31.41	20/240		R. Peking, China
	31.41	7.5	YDQ2	Makassar, Indonesia
	31.41	120/240		R. Havana, Cuba
	31.41	1	YNTZ	R. Jinotega, Nicaragua
	31.41	5		Grenada, Windward Islands
	31.41	1	CE955	R. Valentin Letelier, Chile
	31.41	5	HCRM2	R. Universal, Ecuador
	31.41	1	OAX1Z	R. Nacional Tumbes, Peru
9552	31.41	15		Malé, Maldive Islands
9555	31.40	50/75		BBC London, Gt. Britain
	31.40	250		R. Liberty, Sapin
	31.40	100		Irkutsk, USSR
	31.40	50		Baghdad, Iraq
	31.40	35/100		Poro (VOA), Philippines
	31.40	50		Damascus, Syria
	31.40	5	YSS	R. Nacional, El Salvador
	31.40	1	XEQK	La Hora Exacta, Mexico
	31.40	10	CP6	R. Emis. del Estado, Bolivia
9560	31.38	50		R. Sofia, Bulgaria
	31.38	100		Praha, Czechoslovakia
	31.38	100		Allouis, France
	31.38	100		Amman, Jordan
	31.38	100		R. Japan, Japan
	31.38	50		R. Australia, Australia
	31.38	500		Greenville, USA
9562	31.37	150/50	OAX4R	R. Nacional Lima, Peru
9565	31.36	100	DMQ9	Deutsche Welle, Germany
	31.36	100		Moscow, USSR
	31.36	100		El Beida, Libya
	31.36	250		Kigali (DW), Rwanda
	31.36	20/10		R. Malaysia, Sarawak
	31.36	100/250		Dixon, USA
	31.36	140/250		Bethany, Greenville, USA
	31.36	15	ZYK3	R. Jornal do Comércio, Br.
9570	31.35	100		Allouis, France
	31.35	100		R. Berlin Int, Germany
	31.35	100		BBC London, Gt. Britain
	31.35	120		R. Bucharest, Rumania
	31.35	100		R. Nacional, Spain
	31.35	100		Riazan, USSR
	31.35	100	ETLF	Addis Ababa, Ethiopia
	31.35	18		R. Mali, Mali
	31.35	10		R. TV Kaduna, Nigeria
	R31.35	100		Dona, Qatar
	31.35	20/240		R. Peking, China
	31.25	7.5		BBC Tebrau, Malaysia
	31.35	50		R. Australia, Australia
	31.35	10	CE957	R. Portales, Chile
	31.35	1	YVOM	R. San Cristo'bal, Venezuela
9575	31.33	100		Praha, Czechoslovakia
	31.33	60/100		R. Roma, Italy
	31.33	100		Trans World Radio, Monaco
	31.33	10/100	VUD	AIR Delhi, India

kHz	m	kW	Call	Stations & Countries
9575	31.33	100	VUB	AIR Bombay, India
	31.33	50		Ulan Bator, Mongolia
	31'33	10	BED91	Taipei (BCC), Taiwan
	R31.33	10		Godthåb, Greenland
	31.33	100	WNYW	R. New York, USA
9580	31.32	100/250		BBC London, Gt. Britain
	31.32	200		Kazan, USSR
	31.32	250		BBC, Ascension Island
	31.32	2.5/10		Lusaka, Zambia
	31.32	7.5		BBC Tebrau, Malaysia
	31.32	100		R. Australia, Australia
	31.32	50		Malolos (VOA), Philippines
	31.32	0.5	YNTP	R. Mar, Nicaragua
9585	31.30	100		Allouis, France
	31.30	50/100		R. Nacional, Portugal
	31.30	4		R. Niger, Niger
	31.30	50/100	..	Cairo, United Arab Rep.
	31.30	50	8FB22	Djakarta, Indonesia
	31.30	10		Damascus, Syria
	31.30	100/250		Dixon, USA
	R31.30		YNTP	R. El Mar, Nicaragua
	31.30	50	ZYR56	R. Excelsior, Brazil
	31.30	0.5	OBX4K	R. Selecta, Peru
9590	31.28	100		R. Berlin Int, Germany
	31.28	50/100		R. Nederland, Holland
	31.28	100		Trans World Radio, Monaco
	31.28	120		R. Bucharest, Rumania
	31.28	100		Schwarzenburg, Switzerland
	31.28	50		Khabarovsk, USSR
	31.28	50		Omsk, USSR
	31.28	50		Starobelsk, USSR
	31.28	5		Mogadiscio, Somali Rep.
	31.28	20/240		R. Peking, China
	31.28	10	VUM	AIR Madras, India
	31.28	10/100	VUD	AIR Delhi, India
	31.28	300		R. Nederland, Neth. Antilles
	31.28	260		Trans World Radio, Bonaire
	31.28	1	CE965	R. Pres. Balmaceda, Chile
	31.28	0.2	OAX5C	R. Ica, Peru
9595	31.27	100		R. Free Europe, Germany
	31.27	100		R. Free Europe, Portugal
	31.27	100		Trans World Radio, Monaco
	31.27	100		Schwarzenburg, Switzerland
	31.27	30		Bangui, Central African Rep.
	31.27	50/100		Cairo, United Arab Rep.
	31.27	50/10	JOZ3	Tokyo, Japan
	31.27	20	ZYN29	R. Cultura da Bahia, Brazil
	31.27	10	CXA72	R. Monte Carlo, Uruguay
9600	31.25	100		Praha, Czechoslovakia
	31.25	7.5		BBC, Limassol, Cyprus
	31.25	75		BBC, London, Gt. Britain
	31.25	100		R. Berlin Int, Germany
	31.25	50		Tashkent, USSR
	31.25	250		BBC, Ascension Isl.
	31.25	100	ETLF	Addis Ababa, Ethiopia
	31.25	10/100	VUD	AIR Delhi, India
	31.25	1	ZEYU	Universidad Nac, Mexico
	31.25	0.5	OAX3E	R. Huaráz, Peru
	31.25	0.45	OAX1R	R. Talara, Peru
9605	31.23	100	DMQ9	Deutsche Welle, Germany
	31.23	7.5/5		Athens, Greece
	31.23	50		Serpukhov, USSR
	31.23	50/100		Cairo, United Arab Rep.
	31.23	20/240		R. Peking, China
	31.23	20/10		R. Malaysia, Sarawak
	31.23	20		Damascus, Syria
	31.23	100/250		Dixon, USA
	31.23	50		Trans World Radio, Bonaire
9610	31.22	100		Vienna, Austria
	31.22	100	DMQ9	Deutsche Welle, Germany
	31.22	20/50		R. Liberty, Germany
	31.22	120	LLG	R. Norway, Norway
	31.22	50		R. TV Congolaise, Congo
	31.22	10		Addis Ababa, Ethiopia
	31.22	30		R. Mauritania, Mauritania
	31.22	10/50	VLW/X9	Perth, Australia
	31.22	50		R. Canada, Canada
	31.22	10	ZYC9	R. Tamoio, Brazil
	31.22	2	OAX8C	R. Nacional Iquitos, Peru
9615	31.20	100	ORU4	Wavre, Belgium
	31.20	100		R. Berlin Int, Germany
	31.20	100		Vatican Radio
	31.20	1	CR6RI	R. Diamang, Angola
	31.20	30		Fort Lamy, Chad
	31.20	50/100		Cair, United Arab Rep.
	31.20	100		Tanger, Morocco
	31.20	100		Tanger (VOA), Morocco
	31.20	10/100	VUD	AIR Delhi, India
	31.20	50		Tinang (VOA), Philippines
	31.20	100	WNYW	R. New York, USA
	31.20	50	TIRICA	Voz de la Victor, Costa Rica
9618	31.19	0.4	OBX7E	R. El Sol, Peru
9620	31.19	100		Allouis, France
	31.19	50		Krasnoyarsk, USSR
	31.19	120		Moscow, USSR
	31.19	50/100		R. Belgrade, Yugoslavia
	31.19	10		R. Clube de Mocambique
	31.19	20/240		R. Peking, China
	31.19	200/50		Saigon, Vietnam

kHz	m	kW	Call	Stations & Countries
9620	31.19	10	ZYR97	R. 9 de Julho, Brazil
	31.19	20	CXA6	S.O.D.R.E, Uruguay
9625	31.17	7.5		BBC, Limassol, Cyprus
	31.17	75		BBC London, Gt. Britain
	31.17	100		Hörby, Sweden
	31.17	20	4XB71	Tel Aviv, Israel
	31.17	50		R. Canada, Canada
	31.17	1	OAX8K	R. Atlántida, Peru
9630	31.15	100		Praha, Czechoslovakia
	31.15	50/100		R. Nederland, Holland
	31.15	50/60/100		R. Roma, Italy
	31.15	50/100		R. Nacional, Portugal
	31.15	200		Serpukhow, USSR
	31.15	1	CR6RL	R. Cl. de Angola, Angola
	31.15	10/100	VUD	AIR Delhi, India
	31.15	50	DZH5	Dumaguete City, Philippines
	31.15	3	BED33	Chiayi (BCC), Taiwan
	31.15	50		R. Canada, Canada
9635	31.14	75		BBC London, Gt. Britain
	31.14	100		Trans World Radio, Monaco
	31.14	18		R. Mali, Mali
	31.14	50		Vladivostok, USSR
	31.14	50		R. Afghanistan, Afghanistan
	31.14	50		R. Singapura, Singapore
	31.14	0.25	4VU	R. Lumière, Haiti
	31.14	50/500		Greenville, USA
	31.14	7.5	ZYR83	R. Aparecida, Brazil
	31.14	1	OCX4K	R. Expreso, Peru
9640	31.12	100	DMQ9	Deutsche Welle, Germany
	31.12	35		Thessaloniki (VOA), Greece
	31.12	75/100		BBC London, Gt. Britain
	31.12	100		Trans World Radio, Monaco
	31.12	120		Moscow, USSR
	31.12	50/100		Cairo, United Arab Rep.
	31.12	20		Ejura, Ghana
	31.12	50	HLK5	Suwon, Korea
	31.12	250		Greenville, USA
	31.12	2.5	YVPG	Ecos del Torbes, Venezuela
	31.12	10	YVSC	R. Nacional, Venezuela
9645	31.10	10	LLH	R. Norway, Norway
	31.10	100		Vatican Radio
	31.10	10/50		Karachi, Pakistan
	31.10	2	TIFC	Faro del Caribe, Costa Rica
	31.10	7.5	ZYV40	R. Cultura de Poços., Brazil
	31.10	30	HCJB	La Voz de los Andes, Ec.
	31.10	0.5	OAX1T	R. Grau, Peru
9650	31.09	7.5		BBC, Limassol, Cyprus
	31.09	100		BBC London, Gt. Britain
	31.09	100	DMQ9	Deutsche Welle, Germany
	31.09	100		R. Berlin Int. Germany
	31.09	100		Moscow, USSR
	31.09	100		Conakry, Guinea Rep.
	31.09	20/250		R. RSA, South Africa
	31.09	20/240		R. Peking, China
	31.09	50/500		Greenville, USA
	31.09	1	CE965	R. Yungay, Chile
9655	31.07	100	DMQ9	Deutxche Welle, Germany
	31.07	50		R. Free Europe, Germany
	31.07	100		Trans World Radio, Monaco
	31.07	100		Chita, USSR
	31.07	100		Minsk, USSR
	31.07	10		Kaduna (NBC), Nigeria
	31.07	5	JKH2	Tokyo, Japan
	R31.07	10		Godthåb, Greenland
	31.07	1	OAX9G	R. Nor Peruana, Peru
9660	31.06	50		R. Sofia, Bulgaria
	31.06	75		BBC London, Gt. Britain
	31.06	35		Thessaloniki (VOA), Greece
	31.06	100		R. Liberty, Spain
	31.06	100		Minsk, USSR
	31.06	10	CR6RZ	Emiss. Oficial, Angola
	31.06	20/240		R. Peking, China
	31.06	35	BED42	Taipei (BCC), Taiwan
	31.06	50		R. Malaysia, Malaysia
	31.06	10	VLQ9	Brisbane, Australia
9665	31.04	100		Schwarzenburg, Switzerland
	31.04	120		Ivanofrankovsk, USSR
	31.04	50		Omsk, USSR
	31.04	20/240		R. Peking, China
	31.04	10	PRL	R. Nac. Brasília, Brazil
	31.04	1	OAX8U	R. Eco, Peru
9668	31.03	5	TGNB	R. Cultural, Guatemala
9670	31.02	75		BBC London, Gt. Britain
	31.02	100		Colombo, Ceylon
	31.02	100		R. Japan, Japan
	31.02	100		Jeddah, Saudi Arabia
	31.02	500		Greenville, USA
9675	31.01	75		BBC London, Gt. Britain
	31.01	240		Voronej, USSR
	31.01	100		R. Japan, Japan
	31.01	10	ZYT29	R. Diário da Manhã, Brazil
	31.01	5	OAZ4L	R. del Pacífico, Peru
9680	30.99	50		R. Liberty, Germany
	30.99	50/100		R. Nacional, Portugal
	30.99	100	ETLF	Addis Ababa, Ethiopia
	30.99	35/100		Tanger (VOA), Morocco
	30.99	20		Paradys, So. Africa
	30.99	10/100	VUD	AIR Delhi, India
30.99	30.99	10	VLH/R9	Melbourne, Australia
9685	30.98	50		Erevan, USSR
	30.98	240		Moscow, USSR
	30.98	50		Alger, Algeria
	30.98	50/100		Cairo, United Arab Rep.
	30.98	25	BED73	Taipei (BCC), Taiwan
	30.98	1	HOF31	Onda Popular, Panama
	30.98	10	ZYR227	R. Gazeta, Brazil
9690	30.96	75		BBC London, Gt. Britain
	30.96	100		Novosibirsk, USSR
	30.96	30		Tananarive, Malagasy Rep.
	30.96	100		Lagos (NBC), Nigeria
	30.96	20/240		R. Peking, China
	30.96	100		BBC, Limassol, Cyprus
	30.96	10/100	VUD	AIR Delhi, India
	30.96	10	BED22	Taipei (BCC), Taiwan
	30.96	110		Bethany, USA
	30.96	100	WNYW	R. New York, USA
	30.96	1	CE969	La Voz de Chile, Chile
	30.96	100	LRA32	R. Nacional, Argentina
9695	30.94	50		R. Free Europe, Germany
	30.94	100	ETLF	Addis Ababa, Ethiopia
	30.94	50		R. Cambodge, Canbodia
	30.94	10/100	VUD	AIR Delhi, India
	30.94	0.25	ZK3	Rarotonga, Cook Islands
	30.94	50		Trans World Radio, Bonaire
	30.94	7.5	ZYB22	R. Rio-Mar, Brazil
	30.94	1	OCX4Y	R. Continente, Peru
9700	30.93	120		R. Sofia, Bulgaria
	30.93	100		Allouis, France
	30.93	100		BBC London, Gt. Britain
9705	30.91	50		R. Free Europe, Germany
	30.91	100		BBC London, Gt. Britain
	30.91	50		Lvov, USSR
	30.91	30		R. Niger, Niger
	30.91	250		R. RSA. So. Africa
	30.91	10/100	VUD	Air Delhi, India
	30.91	100		R. Japan, Japan
	30.91	10/50		Karachi, Pakistan
	30.91	100/250		Delano, USA
	30.91	10	ZYZ24	R. Mauá, Brazil
9710	30.90	35		Thessaloniki, Greece
	30.90	50/60/100		R. Roma, Italy
	30.90	240		Kiev, USSR
	30.90	50/100		Cairo, United Arab Rep.
	30.90	10		Forest Side, Mauritius
	30.90	20/240		R. Peking, China
	30.90	50		R. Malaysia, Malaysia
	30.90	7.5	LRX2	R. El Mundo, Argentina
	30.90	1	OAX9D	R. Tropical, Peru
9715	30.88	100		BBC London, Gt. Britain
	30.88	50/100		R. Nederland, Holland
	30.88	50		R. Brazzaville, Congo
	30.88	50		R. TV Congolaise, Congo
	30.88	35/100		Tanger (VOA), Morocco
	30.88	10/50	DZF5	Call of the Orient, Philippines
	30.88	300		R. Nederland, Neth. Antilles
	30.88	1	CP21	R. La Plata, Bolivia
9720	30.86	100		Schwarzenburg, Switzerland
	30.86	120		Riazan, USSR
	30.86	100	CR6RZ	Emiss. Oficial, Angola
	30.86	25/100		Dakar, Sénégal
	30.86	20/250		R. RSA, So. Africa
	30.86	100		Colombo, Ceylon
	30.86	10		AIR Hyderabad, India
	30.86	50		Riyadh, Saudi Arabia
9720	30.86	50	PRL8	R. Nacional, Brazil
	30.86	1	OCX4C	R. Victoria, Peru
9725	30.85	10		R. Free Europe, Germany
	30.85	75		BBC London, Gt. Britain
	30.85	50		Irkutsk, USSR
	30.85	100		Tbilisi, USSR
	30.85	100	4XB51	Tel Aviv, Israel
	30.85	7.5		BBC Tebrau, Malaysia
	30.85	50		Greenville, USA
9730	30.83	50		R. Berlin Int, Germany
	30.83	50/100		R. Nederland, Holland
	30.83	15		R. Brazzaville, Congo
	30.83	20/240		R. Peking, China
	30.83	10/100	VUD	Air Delhi, India
	30.83	50		Trans World Radio, Bonaire
	30.83	7.5	ZYU59	R. Farroupilha, Brazil
9735	30.82	100	DMQ9	Deutsche Welle, Germany
	30.82	75		BBC London, Gt. Britain
	30.82	100		Trans World Radio, Monaco
	30.82	240		Nikolaievsk, USSR
	30.82	100		Tula, USSR
	30.82	50/250		Monrovia (VOA), Liberia
	30.82	250		Kigali (DW), Rwanda
	30.82	100/250		Dixon, USA
9740	30.80	20/100	ORU3/5	Wavre, Belgium
	30.80	250		Woofferton (VOA), Gt. Britain
	30.80	50/100		R. Nacional, Portugal
	30.80	10/100	VUD	AIR Delhi, India
	30.80	100		Amman, Jordan
	30.80	7.5	APD5	Dacca, Pakistan
	30.80	2	LRS1	R. Splendid, Argentina
	30.80	10	OCY4F	R. Los Andes, Peru
9745	30.78	50/100		R. Nederland, Holland
	30.78	240		Moscow, USSR

kHz	m	kW	Call	Stations & Countries
9745	30.78	50		R. Mali, Mali
	30.78	5	8FW30	Sukarnopura, Indonesia
	30.78	3.5	BEC62	Air Force St, Taiwan
	30.78	20	TAP	R. Ankara, Turkey
	30.78	7.5	ZYR57	R. Cultura, Brazil
	30.78	100	HCJB	La Voz de los Andes, Ecuad.
9750	30.77	50		R. Liberty, Germany
	30.77	15/100		BBC London, Gt. Britain
	30.77	50/250		Monrovia (VOA), Liberia
	30.77	100	VUM	AIR Madras, India
	30.77	10/50		Karachi, Pakistan
	30.77	5	CE975	Soc. Nac. Mineria, Chile
	30.77	2.1	OAX8W	R. Sideral, Peru
	30.77	1	YVOS	R. Tovar, Venezuela
9752	30.77	5	PZC	R. Suriname, Surinam
9755	30.75	50/100		R. Nederland, Holland
	30.75	5/135		R. Budapest, Hungary
	30.75	240		Nikolaievsk, USSR
	30.75	50/100		Cairo, United Arab Rep.
	30.75	10/50		Karachi, Pakistan
	30.75	10		Saigon, Vietnam
	30.75	110		Bethany, USA
9760	30.74	100		Munich (VOA), Germany
	30.74	75		BBC London, Gt. Britain
	30.74	20/50		R. Nacional, Spain
	30.74	100		Hörby, Sweden
	30.74	100		Ivanofrankovsk, USSR
	30.74	250		Ejura, Ghana
	30.74	35/100		Tanger (VOA), Morocco
	30.74	10	JOZ7	Tokyo, Japan
	30.74	0.3		Diyarbakir, Turkey
	30.74			Hanoi, Vietnam (Dem. Rep.)
	30.74	10	TGWA	La Voz de Guatemala
9765	30.72	100	DMQ9	Deutsche Welle, Germany
	30.72	75/250		BBC London, Gt. Britain
	30.72	100		Leningrad, USSR
	30.72	120		Omsk, USSR
	30.72	20/240		R. Peking, China
	30.72	10/100	VUD	AIR Delhi, India
	30.72	100		R. Japan, Japan
	30.72	50	BED66	Taipei (BCC), Taiwan
9770	30.71	100	OEI47	Vienna, Austria
	30.71	75		BBC London, Gt. Britain
	30.71	100		Vladivostok, USSR
	30.71	100		Djakarta, Indonesia
	30.71	50		Greenville, USA
	30.71	0.5	4VEH	R. St. 4VEH, Haiti
	30.71	7.5	PRL4	R. Min. Educação, Brazil
	30.71	1	OAX8O	R. Amazonas, Peru
			9775-11700kHz	
9775	30.69	10		Kinshasa, Congo (Dem. Rep.)
	30.69	20/240		R. Peking, China
	30.69	7.5	ZYW23	R. Brasil Central, Brazil
9780	30.67	240		R. Tirana (Peking relay)
9785	30.66	50		Erevan, USSR
	30.66	50		Jigulevsk, USSR
	30.66	20/240		R. Peking, China
9790	30.64	50/100		Cairo, United Arab Republic
9800	30.61	50		Kazan, USSR
	30.61	20/240		R. Peking, China
9810	30.58	50		Moscow, USSR
9815	30.57	50/100		Cairo, United Arab Republic
9825	30.53	75		BBC London, Gt. Britain
9833	30.51	5/135		R. Budapest, Hungary
9840	30.49	50		Baku, USSR
	30.49	20		Deragawa (VUNC)
	30.49			Hanoi, Vietnam (Dem. Rep.)
9856	30.44	20/240		R. Peking, China
9860	30.43	240		R. Peking, China
9870	30.40	20/240		R. Peking, China
9880	30.36	20/240		R. Peking, China
9895	30.32			Benghazi, Libya
9900	30.30	120/240		R. Peking, China
9905	30.29	50		Khabarovsk, USSR
9912	30.27	10/100	VUD	AIR Delhi, India
9915	30.26	75		BBC London, Gt. Britain
9920	30.24	120/240		R. Peking, China
9945	30.17	20/240		R. Peking, China
9955	30.14	20/240		R. Peking, China
9965	30.11	20/240		R. Peking, China
9972	30.08	20/240		R. Peking, China
9985	30.05	20/240		R. Peking, China
9990	30.03			Kunming, China
*10000	30.00	0.5	MSF	Teddington, Gt. Britain
*	30.00	20	RWM	Moscow, USSR
†	30.00	0.25	ZUO	Johannesburg, So. Africa
*	30.00		BVP	Peking, China
*	30.00	2	ATA	New Delhi, India
*	30.00	2	JJY	Tokyo, Japan
*	30.00	2	WWVH	Puunene, Hawaii
*	30.00	10	WWH	Fort Collins, USA
†	30.00	2	LOL	Buenos Aires, Argentina
10015	29.96	0.3		Iskenderun, Turkey
10175	29.48	20/240		R. Peking, China
10180	29.47	20/240		R. Peking, China
10220	29.25	20	PSH	Agencia Nacional, Brazil
10260	29.24	20/240		R. Peking, China
†10331	29.05	15	GPB30B	Hailsham, Gt. Britain
10335	29.03	10/100	VUD	AIR Delhi, India

kHz	m	kW	Call	Stations & Countries
10530	28.50	50		Alma Ata, USSR
10650	28.17	5		Ulan Bator, Mongolia
†10775	27.84	6	FTK77	Pontoise, France
10865	27.61	20/240		R. Peking, China
11015	27.25		ZNX49	Bridgetown, Barbados
11040	27.17			Huhehot, Inner Mongolia
†11080	27.08		NBA	Canal Zone, Panama
11100	27.03	20/240		R. Peking, China
11130	26.95	20/240		R. Peking, China
11290	26.57	20/240		R. Peking, China
11330	26.48	20/240		R. Peking, China
11445	26.21	120/240		R. Peking, China
11455	26.19	20/240		R. Peking, China
11505	26.08	120/240		R. Peking, China
11515	26.05	20/240		R. Peking, China
11570	25.93	50		Moscow, USSR
11590	25.88	20/240		R. Peking, China
11600	25.86	20/240		R. Peking, China
11610	25.84	20/240		R. Peking, China
11620	25.82	20/240		R. Peking, China
	25.82	10/100	VUD	AIR Delhi, India
11630	25.80	20/240		R. Peking, China
11640	25.77	7.5		Dacca, Pakistan
11650	25.75	20/240		R. Peking, China
11655	25.74	50/100		Cairo, United Arab Rep.
11660	25.73	20/240		R. Peking, China
11670	25.70	5		R. Somali, Somalia
11672	25.70	7.5		Dacca, Pakistan
11675	25.70	120/240		R. Peking, China
11680	25.68	75/100		BBC London, Gt. Britain
11685	25.67	1	CR6RR	R. Diamang, Angola
	25.67	50/100		Cairo, United Arab Rep.
	25.67	20/240		R. Peking, China
11690	25.66	50		Erevan, USSR
	25.66	240		R. Peking, China
11695	25.65	50/100		Cairo, United Arab Rep.
			11700-11975kHz (25 metre band)	
11700	25.64	100		Trans World Radio, Monaco
	25.64	50/100		Leningrad, USSR
	25.64	120		Serpukhov, USSR
	25.64	0.5	TGQB	Quezaltenango, Guatemala
	25.64	5		Grenada, Windward Isl.
11705	25.63	250		BBC London, Gt. Britain
	25.63	100		Hörby, Sweden
	25.63	240		Serpukhov, USSR
	25.63	100		Vatican Radio
	25.63	100		R. Japan, Japan
	25.63	100		Islamabad, Pakistan
	25.63	7.5	ZL6	Wellington, New Zealand
	25.63	50/500		Greenville, USA
11710	25.62	250		Woofferton(VOA), Gt. Britain
	25.62	50		Rhodes(VOA), Greece
	25.62	50/100		R. Nederland, Holland
	25.62	100		R. Nacional, Spain
	25.62	50		Moscow, USSR
	25.62	50		R. Brazzaville, Congo
	25.62	50/100		Cairo, United Arab Rep.
	25.62	35/100		Tanger(VOA), Morocco
	25.62	10/100	VUD	AIR Delhi, India
	25.62	100/10		R. Australia, Australia
	25.62	100	LRA35	R. Nacional, Argentina
11715	25.61	20/100	ORU	Wavre, Belgium
	25.61	100		Schwarzenburg, Switzerland
	25.61	240		Orcha, USSR
	25.61	50		Alger, Algeria
	25.61	20/240		R. Peking, China
	25.61	10/100	VUD	AIR Delhi, India
	25.61	50	8FC2	Djakarta, Indonesia
	25.61	50		Tinang(VOA), Philippines
11720	25.60	75		BBC London, Gt. Britain
	25.60	7.5/5		Athens, Greece
	25.60	100		Vatican Radio
	25.60	20/240		R. Peking, China
	25.60	20		BBC Limassol, Cyprus
	25.60	50		R. Canada, Canada
	25.60	10	PRL	R. Nacional Brasilia, Brazil
11725	25.59	100		Allouis, France
	25.59	20/50		R. Liberty, Germany
	25.59	50		R. Free Europe, Portugal
	25.59	100		Omsk, USSR
	25.59	50		R. Brazzaville, Congo
	25.59	20/240		R. Peking, China
	25.59	50	BED75	Taipei(BCC), Taiwan
	25.59	250		Darwin(ABC), Australia
	25.59	50		R. Canada, Canada
	25.59	1	YVLS	R. Frontera, Venezuela
11730	25.58	50/100		R. Nederland, Holland
	25.58	50		Vinnitsa, USSR
	25.58	100	ETLF	Addis Ababa, Ethiopia
	25.58	100		R. Iran, Iran
	25.58	35		Poro (VOA), Philippines
	25.58	300		R. Nederland, Neth. Antilles
11735	25.56	100	LKJ	R. Norway, Norway
	25.56	10		Tromsö, Norway
	25.56	100		R. Belgrade, Yugoslavia
	25.56	50		Tanger, Morocco
	25.56	100		R. RSA, South Africa
	25.56	120/240		R. Habana, Cuba
	25.56	1	ZYW28	R. Clube de Goiânia, Brazil

kHz	m	kW	Call	Stations & Countries
11735	25.56	5	CXA7	R. Oriental, Uruguay
11740	R25.55	50/240		R. Tirana, Albania
	25.55	100		Trans World Radio, Monaco
	25.55	50		Rhodes (VOA), Greece
	25.55	50		Novosibirsk, USSR
	25.55	100		Vatican Radio
	25.55	50/250		Monrovia (VOA), Liberia
	25.55	240		R. Peking, China
	25.55	10/100	VUD	AIR Delhi, India
	25.55	100		R. Australia, Australia
	25.55	50/500		Greenville, USA
	25.55	100	WNYW	R. New York, USA
	25.55	1	XEMP	R. Dif. XEMP, Mexico
	25.55	50		Trans World Radio, Bonaire
	25.55	5	CE1174	R. Nuevo Mundo, Chile
11745	25.54	100		R. Berlin Int, Germany
	25.54	240		Minsk, USSR
	25.54	100		Vatican Radio
	25.54	50/100		Cairo, United Arab Rep.
	25.54	10/50		Karachi, Pakistan
	25.54	10	ZYR65	R. Piratininga, Brazil
11750	25.53	75/250		BBCLondon, Gt. Britain
	25.53	50		R. Mali, Mali
	25.53	20/240		R. Peking, China
	25.53	10/1		(FEN), Japan
	25.53	7.5/75		BBC Tebrau, Malaysia
11755	25.52	50/100		R. Nederland, Holland
	25.52	240		Leningrad, USSR
	25.52	240		Tbilisi, USSR
	25.52	100		Vladivostok, USSR
	25.52	100		Tripoli, Libya
	25.52	10/100	VUD	AIR Delhi, India
	25.52			Hanoi, Vietnam (Dem. Rep.)
	25.52	7.5	LRX	R. El Mundo, Argentina
11760	25.51	250		Woofferton (VOA), Gt. Britain
	25.51	100		Sverdlovsk, USSR
	25.51	100		Vatican Radio
	25.51	4		Fort Lamy, Chad
	25.51	35/100		Tanger (VOA), Morocco
	25.51	20		Paradys, So. Africa
	25.51	10/100	VUD	AIR Delhi, India
	25.51	0.25	ZK4	R. Rarotonga, Cook Islands
	25.51	50/500		Greenville, USA
	25.51	120/240		R. Habana, Cuba
11765	25.50	50		R. Sofia, Bulgaria
	25.50	100		Hörby, Sweden
	25.50	100		Erevan, USSR
	25.50	50/100		Cairo, United Arab Republic
	25.50	10/100	VUD	AIR Delhi, India
	25.50	120/240		Pyongyang, Korea (PDR)
	25.50	10		R. Australia, Australia
	25.50	25	ZYB8	R. Dif. São Paulo, Brazil
11770	25.49	250		R. Liberty, Spain
	25.49	100	ETLF	Addis Ababa, Ethiopia
	25.49	100		Lagos (NBC), Nigeria
	25.49	20	8FC22	Djakarta, Indonesia
	R25.49	1	YVQG	R. Maturin, Venezuela
11775	25.48	100		Allouis, France
	25.48	100		Schwarzenburg, Switzerland
	25.48	120		Kursk, USSR
	25.48	100	ETLF	Addis Ababa, Ethiopia
	25.48	100		R. Afghanistan, Afghanistan
	25.48	20/240		R. Peking, China
	25.48	10/100	VUD	AIR Delhi, India
	25.48	50		Poro (VOA), Philippines
11780	25.47	75/100		BBC London, Gt. Britain
	25.47	50/100		R. Nederland, Holland
	25.47	7.5		R. Clube de Moçambique
	25.47	100		R. Japan, Japan
	25.47	100		R. Australia, Australia
	25.47	7.5	ZL3	Wellington, New Zealand
	25.47	8/7.5	LRY2	R. Belgrano, Argentina
11785	25.46	100		Vienna, Austria
	25.46	100	DMQ11	Deutsche Welle, Germany
	25.46	100		Sverdlovsk, USSR
	25.46	50		Vinnitsa, USSR
	25.46	4		R. Niger, Niger
	25.46	250		Kigali (DW), Rwanda
	25.46	250		R. RSA, South Africa
	25.46	100		Beyrouth, Lebanon
	25.46	1.5	YDQ3	Makassar, Indonesia
	25.46	50		Baghdad, Iraq
	25.46	7.5	ZYU61	R. Guaiba, Brazil
11790	25.45	120		R. Bucharest, Rumania
	25.45	100		Hörby, Sweden
	25.45	35/100		Tanger (VOA), Morocco
	25.45	20/240		R. Peking, China
	25.45	10/100	VUD	AIR Delhi, India
	25.45	35/100		Poro (VOA), Philippines
	25.45	100		R. Australia, Australia
	25.45	50/500		Greenville, USA
	25.45	50/100	WNYW	R. New York, USA
11795	25.43	100	DMQ11	Deutsche Welle, Germany
	25.43	100		Tripoli, Libya
	25.43	250		Kigali (DW), Rwanda
	25.43	50	WINB	Red Lion, USA
	25.43	10	PRI39	R. Nacional Rio, Brazil
11800	25.42	100		Praha, Czechoslovakia
	25.42	100		BBC London, Gt. Britain
11800	25.42	50/100		R. Nederland, Holland
	25.42	60		R. Roma, Italy
	25.42	50/100		Warsaw, Poland
	25.42	50		R. Nac. España, Canary Isl.
	25.42	250		Ejura, Ghana
	25.42	30		R. Mauritania, Mauritania
	25.42	20/240		R. Peking, China
	25.42	35		Colombo, Ceylon
11805	25.41	10	OIX8	Pori, Finland
	25.41	100		Hörby, Sweden
	25.41	50		Kazan, USSR
	25.41	50		Kazan, USSR
	25.41	50/100		Cairo, United Arab Republic
	25.41	10/100	VUD	AIR Delhi, India
	25.41	7.5		BBC Tebrau, Malaysia
	25.41	100		Poro (VOA), Philippines
	25.41	100/250		Delano, USA
	25.41	50/500		Greenville, USA
	25.41	5	CE1180	R. Soc. Nac. Agricult, Chile
	25.41	10	ZYZ36	R. Globo, Brazil
11810	25.40	60/100		R. Roma, Italy
	25.40	25		Bucarest, Rumania
	25.40	100		Hörby, Sweden
	25.40	240		Simferopol, USSR
	25.40	50		Alger, Algeria
	25.40	100	ETLF	Addis Ababa, Ethiopia
	25.40	10/100	VUD	AIR Delhi, India
	25.40	5		Amman, Jordan
	25.40	50		Ulan Bator, Mongolia
	25.40	100		R. Australia, Australia
11815	25.39	50		R. Free Europe, Germ/Port.
	25.39	50		Khabarovsk, USSR
	25.39	50		R. Mali, Mali
	25.39	10/100	VUD	AIR Delhi, India
	25.39	100		R. Japan, Japan
	25.39	50		Trans World Radio, Bonaire
	25.39	7.5	ZYW24	R. Brazil Central, Brazil
11820	25.38	75		BBC London, Gt. Britain
	25.38	50/100		R. Nederland, Holland
	25.38	50		Frunze, USSR
	25.38	120		Tbilisi, USSR
	25.38	250		BBC Ascension Isl.
	25.38	100		R. Abidjan, Ivory Coast
	25.38	25		R. Clube do Moçambique
	25.38	240		R. Peking, China
	25.38	10/100	VUD	AIR Delhi, India
	25.38	50/260		Trans World Radio, Bonaire
11825	25.37	20/50		R. Free Europe, Germany
	25.37	50/100		Cairo, United Arab Republic
	25.37	25	BED69	Taipei (BCC), Taiwan
	25.37	4		Papéete, Tahiti
	25.37	15	ZYK32	R. Jornal do Comércio, Br.
11830	25.36	100		BBC London, Gt. Britain
	25.36	100		Moscow, USSR
	25.36	100	ETLF	Addis Ababa, Ethiopia
	25.36	35/100		Okinawa (VOA), Ryukyu Isl.
	25.36	7.5	ZL19	Wellington, New Zealand
	25.36	110		Bethany, USA
	25.36	100/250		Delano, USA
	25.36	250		Greenville, USA
11835	25.35	50		Alger, Algeria
	25.35	35		Colombo (VOA), Ceylon
	25.35	2.5	4VEJ	R. St. 4VEH, Haiti
	25.35	5	CXA19	El Espectador, Uraguay
11840	R25.34	50/240		R. Tirana, Albania
	25.34	100		BBC London, Gt. Britain
	25.34	30/100		Warsaw, Poland
	25.34	50/100	CSA31	R. Nacional, Portugal
	25.34	20		Paradys, So. Africa
	25.34			Hanoi, Vietnam (Dem. Rep.)
	25.34	10		R. Australia, Australia
	25.34	250		Darwin (ABC), Australia
11845	25.33	100		Allouis, France
	25.33	50		Kazan, USSR
	25.33	100		R. Clube de Moçambique
	25.33	10/100	VUD	AIR Delhi, India
	25.33	500		Greenville, USA
11850	25.32	100	LLK	R. Norway, Norway
	25.32	100		Kazan, USSR
	25.32	250		Ejura, Ghana
	25.32	10		Lusaka, Zambia
	25.32	10/100	VUD	AIR Delhi, India
	25.32	50		Ulan Bator, Mongolia
	25.32	7.5		BBC Tebrau, Malaysia
	25.32	100/250		Delano, USA
	25.32	1	CE1185	R. Cruz del Sur, Chile
	25.32	3	ZPA3	R. Teleco, Paraguay
11855	25.31	25		R. Free Europe, Portugal
	25.31	50/100		Cairo, United Arab Republic
	25.31	100	ETLF	Addis Ababa, Ethiopia
	25.31	10/100	VUD	AIR Delhi, India
	25.31	10/50		Karachi, Pakistan
	25.31	50	DZH8	Call of the Orient, Philippines
	25.31	50		Jeddah, Saudi Arabia
	25.31	100	WNYW	R. New York, USA
11860	25.30	100		BBC London, Gt. Britain
	25.30	100	LLJ	R. Norway, Norway
	25.30	240		Gorki, USSR
	25.30	100		Krasnoyarsk, USSR

kHz	m	kW	Call	Stations & Countries
11860	25.30	250		BBC, Ascencion Isl.
	25.30	20/240		R. Peking, China
	25.30	50	BED45	Taipei (BCC), Taiwan
11865	25.28	7.5/100		BBC Limassol, Cyprus
	25.28	100		BBC London, Gt. Britain
	25.28	100		Trans World Radio, Monaco
	25.28	100		Hörby, Sweden
	25.28	100		Schwarzenburg, Switzerland
	25.28	250		BBC Ascencion Isl.
	25.28	20		Paradys, So. Africa
	25.28	10/100	VUD	AIR Delhi, India
	25.28	35/100		Poro (VOA), Philippines
	25.28	100/250		Dixon, USA
	25.28	1	PRA8	R. Clube Pernambuco, Brazil
11866	25.28	100		R. Lubumbashi, Congo (DR)
11870	25.27	100		Vienna, Austria
	25.27	20/50		R. Liberty, Germany
	25.27	35		Thessaloniki (VOA), Greece
	25.27	100	ETLF	Addis Ababa, Ethiopia
	25.27	50		Khabarovsk, USSR
	25.27	35/100		Tanger (VOA), Morocco
	25.27	100	VUB	AIR Bombay, India
	25.27	100		Amman, Jordan
11875	25.26	100		R. Berlin Int, Germany
	25.26	50/60/100		R. Roma, Italy
	25.26	30		R. Niger, Niger
	25.26	250		R. RSA, South Africa
	25.26	50/100		Cairo, United Arab Republic
	25.26	10/100	VUD	AIR Delhi, India
	25.26	100		R. Japan, Japan
	25.26	10/50		Karachi, Pakistan
	25.26	50	DZH6	Dumaguete City, Philippines
	25.26	10/250		Delano, USA
	25.26	10	ZYN32	R. Soc. Bahia, Brazil
11880	25.25	15/100		BBC London, Gt. Britain
	25.25	100		Hörby, Sweden
	25.25	100		Schwarzenburg, Switzerland
	25.25	240		Moscow, USSR
	25.25	10		Lusaka, Zambia
	25.25	50		R. Australia, Australia
	25.25	10	VLH11	Melbourne, Austria
	25.25	5	XERH	R. Dif. Comerciales, Mexico
	25.25	1	LRS	R. Splendid, Argentina
11885	25.24	100	ORU4	Wavre, Belgum
	25.24	50/250		R. Free Europe, Portugal
	25.24	120		R. Bucharest, Rumania
	25.24	100		R. RSA, South Africa
	25.24	20/240		R. Peking, China
	25.24	10/100	VUD	AIR Delhi, India
	25.24	10/50		Karachi, Pakistan
	25.24	10	ZYZ25	R. Mauá, Brazil
	25.24	10	CXA68	R. Sarandí, Uruguay
11890	25.23	75/100		BBC London, Gt. Britain
	25.23	240		Erevan, USSR
	25.23	100	ETLF	Addis Ababa, Ethiopia
	25.23	10/50		Karachi, Pakistan
	25.23	50	DZE9	Call of the Orient, Philippines
	25.23	140/250		Bethany, USA
	25.23	50/500		Greenville, USA
11895	25.22	100	ORU3	Wavre, Belgium
	25.22	50/250		R. Free Europe, Portugal
	25.22	100		Vatican Radio
	25.22	100	ETLF	Addis Ababa, Ethiopia
	25.22	10/100	VUD	AIR Delhi, India
11900	25.21	100		R. Berlin, Int, Germany
	25.21	50		Sverdlovsk, USSR
	25.21	100		Lagos (NBC), Nigeria
	25.21	250		R. RSA, South Africa
	25.21	100		R. Tunis, Tunisia
	25.21	100		R. Malaysia, Malaysia
	25.21	50/500		Greenville, USA
	25.21	5	CE1190	La Voz de Chile, Chile
	25.21	20	CXA10	S.O.D.R.E, Uruguay
11905	25.20	120		R. Tirana, Albania
	25.20	100	DMQ11	Deutsche Welle, Germany
	25.20	75		BBC London, Gt. Britain
	25.20	100		Trans World Radio, Monaco
	25.20	60/100		R. Roma, Italy
	25.20	100		Irkutsk, USSR
	25.20	250		Kigali (DW), Rwanda
	25.20	100		BBC, Limassol, Cyprus
	25.20	25		Ulan Bator, Mongolia
	25.20	3	BED44	Taipei (BCC), Taiwan
	25.20	50/250		Greenville, USA
11910	25.19	75		BBC London, Gt. Britain
	25.19	15/100		R. Budapest, Hungary
	25.19	20/240		R. Peking, China
	25.19	100		BBC, Limassol, Cyprus
	25.19	100	ETLF	Addis Ababa, Ethiopia
	25.19	10/100	VUD	AIR Delhi, India
	25.19	100		Tel Aviv, Israel
	25.19	100	HSK9	R. Thailand, Thailand
	25.19	100	HCJB	La Voz de los Andes, Ecuad.
11915	25.18	75/100		BBC London, Gt. Britain
	25.18	100		Hörby, Sweden
	25.18	50		Orenburg, USSR
	25.18	50/100		Cairo, United Arab Republic
	25.18	50/250		Monrovia (VOA), Liberia
	25.18	10	PRC23	R. TV Gaúcha, Brazil
11915	25.18	30/100	HCJB	La Voz de los Andes, Ecuad.
11920	R25.17	50/240		R. Tirana, Albania
	25.17	100		Allouis, France
	25.17	50/100		R. Berlin Int, Germany
	25.17	100		Trans World Radio, Monaco
	25.17	120/18		R. Bucharest, Rumania
	25.17	100		R. Abidjan, Ivory Coast
	25.17	120/240		R. Peking, China
	25.17	10/100	VUD	AIR Delhi, India
	25.17	50	DZF2	Call of the Orient, Philippines
	25.17	110		Bethany, USA
	25.17	50/500		Greenville, USA
11925	25.16	100		Vienna, Austria
	25.16	100	DMQ11	Deutsche Welle, Germany
	25.16	100		BBC London, Gt. Britain
	25.16	7.5/5		Athens, Greece
	25.16	100		Trans World Radio, Monaco
	25.16	10		Emis. Nacional, Portugal
	25.16	20/240		R. Peking, Eluna
	25.16	10/100	VUD	AIR Delhi, India
	25.16	10	ZYR78	R. Bandeirantes, Brazil
11930	25.15	75/100		BBC London, Gt. Brtain
	25.15	50/100		R. Nederland, Holland
	25.15	100		Moscow, USSR
	25.15	50		R. Brazzaville, Congo
	25.15	20/240		R. Peking, China
	25.15	50		Tinang (VOA), Philippines
	25.15	120/240		R. Habana, Cuba
11935	25.14	50		R. Liberty, Germany
	25.14	50/100		R. Nacional, Portugal
	25.14	100	ETLF	Addis Ababa, Ethiopia
	25.14	25	ZYS35	R. Cl. Paranaense, Brazil
11940	25.13	100		Trans World Radio, Monaco
	25.13	120		R. Bucharest, Rumania
	25.13	240		Krasnoyarsk, USSR
	25.13	50/100		Cairo, United Arab Republic
	25.13	100		R. Japan, Japan
	25.13	1/10/50		R. Kuwait, Kuwait
	25.13	50		R. Singapura, Singapore
	25.13	35	BED90	Taipei (BCC), Taiwan
11945	25.12	100	DMQ11	Deutsche Welle, Germany
	25.12	75/100		BBC London, Gt. Britain
	25.12	50/100		R. Nederland, Holland
	25.12	240		R. Peking, China
	25.12	50		R. Canada, Canada
	25.12	5	ZPA5	R. Encarnación, Paraguay
11950	25.10	50/100		R. Nederland, Holland
	25.10	50		Kharkov, USSR
	25.10	50		R. ELWA, Liberia
	25.10	50		Riyadh, Saudi Arabia
	25.10	25		Saigon, Vietnam
	25.10	7.5	PRL3	R. Min. Educação, Brazil
11955	25.09	100		BBC London, Gt. Britain
	25.09	50/100		R. Nederland, Holland
	25.09	7.5		Warsaw, Poland
	25.09	100	CR6RZ	Emiss. Oficial, Angola
	25.09	100		BBC Limassol, Cyprus
	25.09	75		BBC Tebrau, Malaysia
	25.09	500		Greenville, USA
11957	25.09	20/240		R. Peking, Chna
11960	25.08	100		Praha, Czechoslovakia
	25.08	50/100		R. Nederland, Holland
	25.08	240		Serpukhov, USSR
	25.08			Benghazi, Libya
	25.08	35/100		Tanger (VOA), Morocco
	25.08	5	CE1196	R. Nac. de Mineria, Chile
11965	25.07	100	ORU3	Wavre, Belgium
	25.07	100	DMQ11	Deutsche Welle, Germany
	25.07	50/60/100		R. Roma, Italy
	25.07	20/240		R. Peking, China
	25.07	100	VUB	AIR Bombay, India
	25.07	100		R. Japan, Japan
	25.07	50		Malolos (VOA), Philippines
	25.07	35/100		Okinawa (VOA), Ryukyu Isl.
	25.07	50	PRB24	R. Record, Brazil
11970	25.06	50		R. Sofia, Bulgaria
	25.06	50		R. Liberty, Germany
	25.06	100		Allouis, France
	25.06	50/100		R. Nederland, Holland
	25.06	4		R. Brazzaville, Congo
	25.06	50/250		Monrovia (VOA), Liberia
	25.06	100		Amman, Jordan
	25.06	100		Islamabad, Pakistan
	25.06	50/100	BED37	Taipei (BCC), Taiwan
	25.06	5		Grenada, Windward Islands
	25.06	100	WNYW	R. New York, USA
11975	25.05	100		Allouis, France
	25.05	100		R. Berlin Int, Germany
	25.05	50		R. St. ELWA, Liberia
	25.05	20/240		R. Peking, China
11980	25.04	50		Komsomolsk, USSR
	25.04	50/100		Cairo, United Arab Republic
	25.04	120/240		R. Peking, China
11990	25.02	100		Praha, Czechoslovakia
	25.02	50		Dushanbé, USSR
				11995-15100kHz
12000	25.00	100		Armavir, USSR
†	25.00	10	VNG	Lyndhurst, Australia
12005	24.99	50/100		Cairo, United Arab Republic

kHz	m	kW	Call	Stations & Countries
12005	24.99	20/240		R. Peking, China
12010	24.98	20		Novosibirsk, USSR
	24.98	120/240		R. Peking, China
12015	24.97	50		Khabarovsk, USSR
	24.97	20/240		R. Peking, China
12020	24.96	100		Armavir, USSR
	24.96	20/240		R. Peking, China
12030	24.94	20		Novosibirsk, USSR
12035	24.93	20/240		R. Peking, China
12040	24.92	75		BBC London, Gt. Britain
12050	24.90	20/240		R. Peking, China
12055	24.89	120/240		R. Peking, China
12060	24.88	50		Moscow, USSR
	24.88	20/240		R. Peking, China
12065	24.87	20/240		R. Peking, China
12070	24.86	100		Kiev, USSR
12080	24.83	20/240		R. Peking, China
12095	24.80	75		BBC London, Gt. Britain
12110	24.77	120/240		R. Peking, China
12120	24.75	20/240		R. Peking, China
†12135	24.72		NSS	Annapolis, USA
†12307	24.38		OBC	Callao, Peru
†12763	23.50	15	DAM	Elmshorn, Germany
†12907	23.25	10	VHP5	Belconnen, Australia
†12960	23.16		CCV	Valparaiso, Chile
†12966	23.14		NPG	San Francisco, USA
†13105	22.89		PPR	Rio de Janeiro, Brazil
†13530	22.17		NPN	Guam
†13555	22.15	15	GIC33	Hailsham, Gt. Britain
†13655	21.97		NPM	Honolulu, Hawaii
13750	21.82			Khabarovsk, USSR
†13873	21.62	6	FTN87	Pontoise, France
14460	20.75	20		Deregawa (VUNC)
14990	20.01	20/240		R. Peking, China
†15000	20.00	20	RWM	Moscow, USSR
*	20.00		BPV	Peking, China
*	20.00	2	JJY	Tokyo, Japan
*	20.00	2	WWVH	Puunene, Hawaii
*	20.00	10	WWV	Fort Collins, USA
*	20.00	2	LOL	Buenos Aires, Argentina
	20.00	120/240		R. Peking, China
15020	19.97			Hanoi, Vietnam (Dem. Rep.)
15030	19.96	120/240		R. Peking, China
15040	19.95	20/240		R. Peking, China
15044	R 19.94			Hanoi, Vietnam (Dem. Rep.)
15055	19.93	50/100		Cairo, United Arab Republic
15060	19.92	240		R. Peking, China
15070	19.91	75/100		BBC London, Gt. Britain
15080	19.89	100	VUB	AIR Bombay, India
	19.89	10/100	VUD	AIR Delhi, India
	19.89	20/240		R. Peking, China
15090	19.88	50/100		Cairo, United Arab Republic
15095	19.87	240		R. Peking, China
		15100-15450kHz (19 metre band)		
15100	19.87	100		Krasnoyarsk, USSR
	19.87	10/50		Karachi, Pakistan
	19.87	5		Grenada, Windward Islands
15105	19.86	75		BBC London, Gt. Britain
	19.86	10/100	VUD	AIR Delhi, India
	19.86	100		R. Japan, Japan
	19.86	250		BBC, Ascencion Island
	19.86	7.5	ZYZ32	R. Rural Brasileira, Brazil
15110	19.85	100		Kiev, USSR
	19.85	100		Islamabad, Pakistan
	19.85	7.5	ZL21	Wellington, New Zealand
	19.85	5	XERR	R. Dif. Comerciales, Mexico
15115	19.82	250		R. Free Europa, Portugal
	19.82	50/100		Cairo, United Arab Republic
	19.85	100		Dakar, Sénégal
	19.85	20/240		R. Peking, China
	19.85	100		Jeddah, Saudi Arabia
	19.85	250		Darwin (ABC), Australia
	19.85	50/100	HCJB	La Voz de los Andes, Ecuad.
15120	19.84	100		Allouis, France
	19.84	100		Kiev, USSR
	19.84	100		Vatican Radio
	19.84	100		Lagos (NBC), Nigeria
	19.84	100	HCJB	La Voz de los Andes, Ecuad.
15125	19.83	50		R. Free Europe, Germany
	19.83	50		R. Liberty, Germany
	19.83	100	CSA64	R. Nacional, Portugal
	19.83	100		Schwarzenburg, Switzerland
	19.83	50		R. St. ELWA, Liberia
	19.83	50	VUD	AIR Delhi, India
	19.83	100	BED60	Taipei (BCC), Taiwan
	19.83	10	ZYN32	R. Soc. da Bahia, Brazil
15130	19.83	20/50		R. Liberty, Germany
	19.83	240		Riazan, USSR
	19.83	100	ETLF	Addis Ababa, Ethiopia
	19.83	10/100	VUD	AIR Delhi, India
	19.83	50		Suwon (KBS), So. Korea
	19.83	100	WNYW	R. New York, USA
15135	19.82	100		Schwarzenburg, Switzerland
	19.82	100		Tula, USSR
	19.82	50/100		Cairo, United Arab Republic
	19.82	10/100	VUD	AIR Delhi, India
	19.82	100		R. Iran, Iran
	19.82	100		R. Japan, Japan
	19.82	250		Darwin (ABC), Australia
15135	19.82	10	PRB23	R. Panamericana, Brazil
15140	19.82	75/250		BBC London, Gt. Britain
	19.82	240		Petropavlovsk, USSR
	19.82	20/240		R. Peking, China
	19.82	10/100	VUD	AIR Delhi, India
	19.82	10		R. Australia, Australia
	19.82	50/260		Trans World Radio, Bonaire
15145	19.81	100		R. Free Europe, Portugal
	19.81	15	ZYK33	R. Jornal do Comércio, Brazil
15150	19.80	50		Omsk, USSR
	19.80	240		Minsk, USSR
	19.80	7.5	YDC	Djakarta, Indonesia
	19.80	50		R. Kuwait, Kuwait
	19.80	100		Jeddah, Saudi Arabia
	19.80	1	CE1515	R. Corporación, Chile
	19.80	150/50	OAX4T	R. Nacional, Peru
15155	19.80	50/100		Allouis, France
	19.80	100	ETLF	Addis Ababa, Ethiopia
	19.80	50		R. St. ELWA, Liberia
	19.80	100		Lagos (NBC), Nigeria
	19.80	10/100	VUD	AIR Delhi, India
	19.80	50	HLK41	Suwon, Korea
	19.80	50		Tinang (VOA), Philippines
	19.80	100		Poro (VOA), Philippines
	19.80	120/240		R. Habana, Cuba
	19.80	25	ZYB9	R. Dif. de São Paulo, Brazil
15160	19.79	100		Allouis, France
	19.79	50		Rhodes (VOA), Greece
	19.79	15/100		R. Budapest, Hungary
	19.79	50		Moscow, USSR
	19.79	10/100	VUD	AIR Delhi, India
	19.79	100	TAU	R. Ankara, Turkey
	19.79	140/250		Bethany, USA
15165	19.78	50	OZF7	R. Denmark, Denmark
	19.78	20/240		R. Peking, China
	19.78	10/100	VUD	AIR Delhi, India
	19.78	35/100		Poro (VOA), Philippines
	19.78	50		Damascus, Syria
	19.78	5	ZYN7	Ceara R. Clube, Brazil
15170	19.78	100	LKV	R. Norway, Norway
	19.78	250		R. Free Europe, Germany
	19.78	100	ETLF	Addis Ababa, Ethiopia
	19.78	100		Amman, Jordan
	19.78	10	TGWA	La Voz de Guatemala
15175	19.77	100	LLM	R. Norway, Norway
	19.77	100		Lvov, USSR
	19.77	50/100		Cairo, United Arab Republic
	19.77	50		Malolos (VOA), Philippines
15180	19.76	75		BBC London, Gt. Britain
	19.76	50/100		R. Nederland, Holland
	19.76	100		Schwarzenburg, Switzerland
	19.76	50		Sverdlovsk, USSR
	19.76	100		Petropovlovsk, USSR
	19.76	250		BBC, Ascencion Island
	19.76	100	ETLF	Addis Ababa, Ethiopia
	19.76	10		R. Australia, Australia
	19.76	5		Grenada, Windward Islands
	19.76	10	ZYN30	R. Cultura da Bahia, Brazil
15185	19.76	100	OIX4	Pori, Finland
	19.76	50		Askhabad, USSR
	19.76	20/240		R. Peking, China
	19.76	10/100	VUD	AIR Delhi, India
15190	19.75	50		R. Brazzaville, Congo
	19.75	100	ETLF	Addis Ababa, Ethiopia
	19.75	10/100	VUD	AIR Delhi, India
	19.75	50		R. Canada, Canada
	19.75	5	PRK9	R. Inconfidencia, Brazil
15195	19.74	250		Woofferton (VOA), Gt. Brit.
	19.74	50		Blagoveschensk, USSR
	19.74	35/100		Tanger (VOA), Morocco
	19.74	50/250		Monrovia (VOA), Liberia
	19.74	100		R. Japan, Japan
15200	19.74	100		Allouis, France
	19.74	75/100		BBC London, Gt. Britain
	19.74	50		Kalatch, USSR
	19.74	50		Alger, Algeria
	19.74	20/240		R. Peking, China
15205	19.73	100	DMQ15	Deutsche Welle, Germany
	19.73	250		Woofferton (VOA), Gt. Brit.
	19.73	25/100		Tanger (VOA) Morocco
	19.73	500		Greenville, USA
15210	19.72	100		Vienna, Austria
	19.72	75/100		BBC London, Gt. Britain
	19.72	100		Moscow, USSR
	19.72	100		Vatican Radio
	19.72	50/100		Cairo, United Arab Republic
	19.72	35/100		Poro (VOA), Philippines
	19.72	3	ZPA7	R. Guaraní, Paraguay
15215	19.71	100		Warsaw, Poland
	19.71	100		R. Free Europe, Portugal
	19.71	50/100		R. Nacional, Portugal
	19.71	100		R. Tunis, Tunisia
15220	19.71	50/100		R. Nederland, Holland
	19.71	240		Riga, USSR
	19.71	250		R. RSA, South Africa
	19.71	100		R. Australia, Australia
	19.71	10	VLG	Melbourne, Australia
	19.71	260		Trans World Radio, Bonaire
	19.71	300		R. Nederland, Neth. Antilles

kHz	m	kW	Call	Stations & Countries
15225	19.71	120		R. Bucharest, Rumania
	19.71	250		R. Liberty, Spain
	19.71	25	CXA64	La Voz de Melo, Uraguay
15230	19.70	75/100		BBC London, Gt. Britain
	19.70	240		Voronej, USSR
	19.70	100		Colombo, Ceylon
	19.70	10	VLH15	Melbourne, Australia
	19.70	250		Greenville, USA
15235	19.69	75		BBC London, Gt. Britain
	19.69	250		Wofferton (VOA), Gt. Britain
	19.69	250		BBC, Ascencion Island
	19.69	10/100	VUD	AIR Delhi, India
	19.69	100		R. Japan, Japan
	19.69	250		Greenville, USA
15236	19.69	20/240		R. Peking, China
15240	19.69	50/100		R. Berlin Int, Germany
	19.69	100		Hörby, Sweden
	19.69	50		Sverdlovsk, USSR
	19.69	100		R. Belgrade, Yugoslavia
	19.69	10/50		R. Australia, Australia
	19.69	50		R. St. KGEI, USA
15241	19.69	20/240		R. Peking, China
15245	19.68	100		Allouis, France
	19.68	100	DMQ15	Deutsche Welle, Germany
	19.68	75/100		BBC London, Gt. Britain
	19.68	50		Kinshasa, Congo, (Dem. Rep.)
	19.68	35/100		Tanger (VOA), Morocco
	19.68	250		R. RSA, South Africa
	19.68	50		R. St. KGEI, USA
	19.68	7.5	ZYE21	R. Marajoára, Brazil
15250	19.67	120/18		R. Bucharest, Rumania
	19.67	10/100	VUD	AIR Delhi, India
	19.67	50/100		Poro (VOA), Philippines
	19.67	250		Greenville, USA
	19.67	50/260		Trans World Radio, Bonaire
15255	19.66	10		R. Free Europe, Portugal
	19.66	100		Vatican Radio
	19.66	100		Lagos (NBC), Nigeria
	19.66	20/240		R. Peking, China
15260	19.66	7.5/100		BBC, Limassol, Cyprus
	19.66	100/250		BBC London, Gt. Britain
	19.66	250		BBC Ascension Island
	19.66	50/100		Cairo, United Arab Republic
	19.66	1		Tokyo (FEN), Japan
15265	19.66	100		Gorki, USSR
	19.66	50		Kenga, USSR
	19.66	50/250		Monrovia (VOA), Liberia
	19.66	50		R. Afghanistan, Afghanistan
	19.66	50	PRG9	R. Excelsior, Brazil
15270	19.65	100	ETLF	Addis Ababa, Ethiopia
	19.65	50/250		Monrovia (VOA), Liberia
	19.65	35/100		Tanger (VOA), Morocco
	19.65	100		Tananarive, Malagasy Republic
	19.65	100		R. RSA, South Africa
	19.65	20/240		R. Peking China
	19.65	250		Darwin (ABC), Australia
	19.65	1	CXA18	S.O.D.R.E, Uraguay
15275	19.64	100	DMQ15	Deutsche Welle, Germany
	19.64	100		Warsaw, Poland
	19.64	120		R. Bucharest, Rumania
	19.64	100		Hörby, Sweden
	19.64	50		Omsk, USSR
	19.64	10/100	VUD	AIR Delhi, India
15280	19.63	3	BED36	Taipei (BCC), Taiwan
	19.63	100		R. Malaysia, Malaysia
	19.63	0.1	4VWI	R. St. 4VEH, Haiti
	19.63	500		Greenville, USA
15285	19.63	100		Praha, Czechoslovakia
	19.63	75/100		BBC London, Gt. Britain
	19.63	120		R. Bucharest, Rumania
	19.63	25/100		Vatican Radio
	19.63	250		Ejura, Ghana
	19.63	35		Colombo (VOA), Ceylon
	19.63	120/240		R. Habana, Cuba
15290	19.62	75/100		BBC London, Gt. Britain
	19.62	20/50		R. Liberty, Germany
	19.62	20/240		R. Peking, China
	19.62	10/100	VUD	AIR Delhi, India
	19.62	35/100		Poro (VOA), Philippines
	19.62	20		Damascus, Syria
	19.62	50/500		Greenville, USA
	19.62	5	LRU	R. El Mundo, Argentina
15295	19.62	100		Allouis, France
	19.62	240		Voronej, USSR
	19.62	50		Tanger (VOA), Morocco
	19.62	25		R. Clube de Moçambique
15300	19.61	100	DMQ15	Deutsche Welle, Germany
	19.61	75		BBC London, Gt. Britain
	19.61	50/100		Cairo, United Arab Republic
	19.61	100/200		R. Japan, Japan
	19.61	10/50	DZH9	Call of the Orient, Philippines
	19.61	120/240		R. Habana, Cuba
15305	19.60	100		Schwarzenburg, Switzerland
	19.60	100		Voronej, USSR
15310	19.60	100		R. Sofia, Bulgaria
	19.60	100		Praha, Czechoslovakia
	19.60	75		BBC London, Gt. Britain
	19.60	50/60/100		R. Roma, Italy
	19.60	100		Hörby, Sweden
15310	19.60	100		Conakry, Guinea Rep.
	19.60	35/100		Tanger (VOA), Morocco
	19.60	10/100	VUD	AIR Delhi, India
	19.60	7.5		BBC Tebrau, Malaysia
15315	19.59	100	DMQ15	Deutsche Welle, Germany
	19.59	50/100		R. Nacional, Portugal
	19.59	100		Hörby, Sweden
	19.59	100	ETLF	Addis Ababa, Ethiopia
	19.59	100		Tanger (VOA), Morocco
	19.59	20/240		R. Peking, China
15320	19.58	50/100		R. Nederland, Holland
	19.58	100		Kazan, USSR
	19.58	100		Krasnoyarsk, USSR
	19.58	50/100	BED38	Taipei (BCC), Taiwan
	19.58	100		R. Australia, Australia
	19.58	50		R. Canada, Canada
	19.58	300		R. Nederland, Net. Antilles
15325	19.58	100		Vienna, Austria
	19.58	50/250		Monrovia (VOA), Liberia
	19.58	35/100		Tanger (VOA), Morocco
	19.58	10/50		Karachi, Pakistan
	19.58	50		R. Canada, Canada
	19.58	5	ZYR228	R. Gazeta, Brazil
	19.58	100	HCJB	La Voz de los Andes, Ecuad.
15330	19.57	100		Sverdlovsk, USSR
	19.57	100		Lagos (NBC), Nigeria
	19.57	140/250		Bethany, USA
15335	19.56	20	ORU5	Wavre, Belgium
	19.56	10/100	VUD	AIR Delhi, India
	19.56	100	VUM	AIR Madras, India
	19.56	10/50		Karachi, Pakistan
	19.56	7.5	ZYU68	R. Farroupilha, Brazil
15340	19.56	50		R. Liberty, German
	19.56	50/100		R. Nederland, Holland
	19.56	100		R. Roma, Italy
	19.56	100		Beyrouth, Lebanon
15344	19.55	0.5	8FW2	Sukarnopura, Indonesia
15345	19.55	7.5/5		Athens, Greece
	19.55	100	LKU	R. Norway, Norway
	19.55	50/100		Cairo, United Arab Republic
	19.55	50		Sebaa Aioun, Morocco
	19.55	100		Amman, Jordan
	19.55	50		Poro (VOA), Philippines
	19.55	25	BED49	Taipei (BCC), Taiwan
	19.55	50	LRA33	R. Nacional, Argentina
15350	19.54	75		BBC London, Gt. Britain
	19.54	6		R. Luxembourg, Luxembourg
	19.54	100		Vologda, USSR
	19.54	100		Beyrouth, Lebanon
	19.54	50/260		Trans World Radio, Bonaire
15355	19.53	250		R. Free Europe, Portugal
	19.53	100	WNYW	R. New York, USA
	19.53	20/240		R. Peking, China
15360	19.53	240		Moscow, USSR
	19.53	50		R. Nac. España, Canary Isl.
	19.53	50/100		Cairo, United Arab Republic
	19.53	50/250		Monrovia (VOA), Liberia
	19.53	250		R. RSA, South Africa
	19.53	10/50		Karachi, Pakistan
15365	19.52	100		Praha, Czechoslovakia
	19.52	100		R. RSA, South Africa
	19.52	35/100		Poro (VOA), Philippines
	19.52	35/100		Okinawa (VOA), Ryukyu Isl.
	19.52	120/240		R. Habana, Cuba
15370	19.52	250/500		R. Liberty, Spain
	19.52	50/250		Monrovia (VOA), Liberia
	19.52	20/240		R. Peking, China
	19.52	50/100	BED93	Taipei (BCC), Taiwan
	19.52	50/500		Greenville, USA
	19.52	100	WNYW	R. New York, USA
	19.52	10	ZYC9	T. Tamoio, Brazil
	19.52	10		R. Tupi, Brazil
15375	19.51	75/100		BBC London, Gt. Britain
	19.51	100		Leningrad, USSR
	19.51	100		Komsomolsk, USSR
	19.51	35/100		Poro (VOA), Philippines
	19.51	35/100		Okinawa (VOA), Ryukyu Isl.
15380	19.50	100		Vienna, Austria
	19.50	100		Allouis, France
	19.50	100	DMQ15	Deutsche Welle, Germany
	19.50	50		R. Liberty, Germany
	19.50	50/100		R. Nacional, Portugal
	19.50	15		R. Bucharest, Rumania
	19.50	50		Tanger, Morocco
	19.50	250		Kigali (DW) Rwanda
	19.50	20/240		R. Peking, China
	19.50	100		Islamabad, Pakistan
	19.50	50/500		Greenville, USA
15385	19.50	240		Gorki, USSR
	19.50	100		R. Tunis, Tunisia
	19.50	50	DZF3	Call of the Orient, Philippines
	19.50	10	CXA60	R. Sarandí, Uraguay
15390	19.49	75		BBC London, Gt. Britain
15395	19.49	120		Tashkent, USSR
	19.49	35/100		Okinawa (VOA), Ryukyu Isl.
	19.49	500		Greenville, USA
15400	19.48	100		R. Roma, Italy
	19.48	250		BBC, Ascension Island
	19.48	100	ETLF	Addis Ababa, Ethiopia

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kHz	m	kW	Call	Stations & Countries
15400	19.48	50		Baghdad, Iraq
	19.48	250		Greenville, USA
15405	19.47	100	DMQ15	Deutsche Welle, Germany
	19.47	100		Sverdlovsk, USSR
15406	19.47	5	PZC	R. Suriname, Surinam
15410	19.47	100	OEI66	Vienna, Austria
	19.47	100	DMQ15	Deutsche Welle, Germany
	19.47	75/100		BBC London, Gt. Britain
	19.47	100	ETLF	Addis Ababa, Ethiopia
	19.47	10		Tanger, Morocco
	19.47	35/100		Poro (VOA), Philippines
	19.47	100/250		Delano, USA
	19.47	500		Greenville, USA
15415	19.46	100		Frunze, USSR
	19.46	100		Kiev, USSR
	19.46	100	ETLF	Addis Ababa, Ethiopia
	19.46	50/100		Cairo, United Arab Republic
	19.46	500		Greenville, USA
	19.46	1	ZYR206	R. Cl. Ribeirão Preto, Brazil
15417	19.46	120/240		R. Peking, China
15420	19.46	75		BBC London, Gt. Britain
	19.46	100		R. Nacional, Spain
	19.46	100		Hörby, Sweden
	19.46	100		BBC, Limasol, Cyprus
	19.46	50	DZH7	Dumaguete City, Philippines
15425	19.45	50/100		R. Nederland, Holland
	19.45	7.5/5		Athens, Greece
	19.45	240		Moscow, USSR
	19.45	100	ETLF	Addis Ababa, Ethiopia
	19.45	50	VLX15	Perth, Australia
			15427-17700kHz	
15430	19.44	100		Schwarzenburg, Switzerland
	19.44	100	ETLF	Addis Ababa, Ethiopia
	19.44	10/100	VUD	AIR Delhi, India
	19.44	50	HLK41	Suwon, Korea
	19.44	50/250		Greenville, USA
15435	19.44	100		BBC, Limassol, Cyprus
	19.44	75/250		BBC London, Gt. Britain
	19.44	100	DMQ15	Deutsche Welle, Germany
	19.44	250		BBC, Ascencion Isl.
	19.44	250		Kigali (DW), Rwanda
	19.44	100		R. Tanzania, Tanzania
	19.44	100		R. Afghanistan, Afghanistzn
	19.44	20/240		R. Peking, China
	19.44	7.5		BBC Tebrau, Malaysia
15440	19.43	120		Riazan, USSR
	19.43	100		Tashkent, USSR
	19.43	50/3	DZF8	Call of the Orient, Philippines
	19.43	100	WNYW	R. New York, USA
15445	19.43	50		R. Liberty, Germany
	19.43	50/100		R. Nederland, Holland
	19.43	100		Hörby, Sweden
	19.43	50		R. Brazzaville, Congo
	19.43	250		Monrovia (VOA), Liberia
	19.43	20/240		R. Peking, China
	19.43	10	ZYN32	R. Nac. Brasilia, Brazil
15448	19.42	100		Praha, Czechoslovakia
15450	19.42	50/100		R. Berlin Int, Germany
	19.42	5	PZC	R. Suriname, Surinam
15460	19.40	50		Krasnoyarsk, USSR
	19.40	100		Moscow, USSR
15465	19.40	5	PZC	R. Suriname, Surinam
15470	19.39	50		Kalinin, USSR
15475	19.38	50/100		Cairo, United Arab Republic
15480	19.38	50		Irkutsk, USSR
	19.38	20/240		R. Peking, China
15490	19.36	50		Orenburg, USSR
15500	19.35	20/240		R. Peking, China
15505	19.35	50		Sverdlovsk, USSR
15520	19.33	20/240		R. Peking, China
	19.33	120/240		Pyongyang, Korea (Dem. Rep.)
	19.33	7.5/100		Dacca, Pakistan
15550	19.33	20/240		R. Peking, China
15590	19.24	20/240		R. Peking, China
15610	19.22	120/240		R. Peking, China
15670	19.14	20/240		R. Peking, China
15710	19.10	20/240		R. Peking, China
15880	18.90	20/240		R. Peking, China
15960	18.80	20/240		R. Peking, China
†16170	18.55	10	JAQ22	Oyama, Japan
†16180	18.54		NSS	Annapolis, USA
16250	18.46			Moscow, USSR
16320	18.38	120/240		Pyongyang, Korea (Dem. Rep.)
†16980	17.67	15	DAM	Elmshorn, Germany
†17122	17.52		NPM	Honolulu, Hawaii
†17194	17.45		PPR	Rio de Janeiro, Brazil
†17256	17.39	10	VHP6	Belconnen, Australia
†17288	17.35		NPG	San Francisco, USA
17450	17.19	20/240		R. Peking, China
17490	17.15	20/240		R. Peking, China
†17530	17.11		NPN	Guam
17533	17.11	20/240		R. Peking, China
17605	17.04	20/240		R. Peking, China
17650	17.00	20/240		R. Peking, China
		20/240		R. Peking, China
17655	16.99	15/100		Cairo, United Arab Rep.
17680	16.97	240		R. Peking, China
†17685	16.96	15	GIC37	Hailsham, Gt. Britain
17690	16.96	50/100		Cairo, United Arab Rep.
17695	16.95	75/100		BBC London, Gt. Britain
†17697	16.95		NBA	Canal Zone, Panama
			17700-17900kHz (16 metre band)	
17700	16.95	50		Tallinn, USSR
	16.95	120/240		R. Peking, China
17705	16.94	100		Munich (VOA), Germany
	16.94	100	DMQ17	Deutsche Welle, Germany
	16.94	250		BBC London, Gt. Britain
	16.94	100	VUB	AIR Bombay, India
	16.94	10/100	VUD	AIR Delhi, India
	16.94	50/500		Greenville, USA
	16.94	120/240		R. Habana, Cuba
	16.94	10	ZYR96	R. 9 de Julho, Brazil
17710	16.94	100		Moscow, USSR
	16.94	50/100		Cairo, United Arab Rep.
	16.94	250		Greenville, USA
17715	16.93	100		Vienna, Austria
	16.93	75/250		BBC London, Gt. Britain
	16.93	120/240		R. Peking, China
	16.93	10/100	VUD	AIR Delhi, India
	16.93	50	DZH8	Dumaguete City, Philipp.
	16.93	50		R. Australia, Australia
	16.93	120/240		R. Habana, Cuba
17720	16.93	100		Allouis, France
	16.93	50		R. Liberty, Germany
	16.93	100		Kazan, USSR
	16.93	100		R. Tunis, Tunisia
	16.93	20/240		R. Peking, China
	16.93	50	BED39	Taipei (BCC), Taiwan
	16.93	50	WINB	Red Lion, USA
17725	16.93	50		R. Free Europe, Portugal
	16.93	50/100		Cairo, United Arab Rep.
	16.93	100		R. Japan, Japan
	16.93	1	ZYR232	R. Universitária, Brazil
17730	16.92	100		Allouis, France
	16.92	240		Serpukhov, USSR
	16.92	50		Irkutsk, USSR
	16.92	100		Tananarive, Malagasy Rep.
17735	16.92	100		Allouis, France
	16.92	50		R. Free Europe, Portugal
	16.92	50		R. Tunis, Tunisia
	16.92	35/100		Poro (VOA), Philippines
17740	16.91	100		Allouis, France
	16.91	75		BBC London, Gt. Britain
	16.91	50/60/100		R. Roma, Italy
	16.91	50/100		R. Nacional, Portugal
	16.91	250		BBC, Ascencion Island
	16.91	50/250		Monrovia (VOA), Liberia
	16.91	20/240		R. Peking, China
	16.91	10/100	VUD	AIR Delhi, India
17745	16.91	75		BBC London, Gt. Britain
	16.91	7.5/5		Athens, Greece
	16.91	240		Kursk, USSR
	16.91	20/240		R. Peking, China
	16.91	7.5		Dacca, Pakistan
	16.91	10/50		Karachi, Pakistan
17750	16.90	20/100	ORU	Wavre, Belgium
	16.90	50/100		R. Nederland, Holland
	16.90	500		R. Liberty, Spain
	16.90	100	ETLF	Addis Ababa, Ethiopia
	16.90	100		Lagos (NBC), Nigeria
	16.90	50		R. Kuwait, Kuwait
	16.90	20/240		R. Peking, China
	16.90	50		Poro (VOA), Philippines
	16.90	110		Bethany, USA
	16.90	120/240		R. Habana, Cuba
17755	16.90	100		R. Norway, Norway
	16.90	50		Krasnoyarsk, USSR
	16.90	50		Malolos (VOA), Philippines
17760	16.89	50/100		R. Liberty, Germany/Spain
	16.89	100		Hörby, Sweden
	16.89	50/100		Cairo, United Arab Rep.
	16.89	100	ETLF	Addis Ababa, Ethiopia
	16.89	1		R. St. ELWA, Liberia
	16.89	50/100		Cairo, United Arab Rep.
	16.89	100	WNYW	R. New York, USA
17765	16.89	100		Allouis, France
	16.89	100	DMQ17	Deutsche Welle, Germany
	16.89	50/100		R. Nederland, Holland
	16.89	100		Tula, USSR
	16.89	250		Kigali (DW), Rwanda
	16.89	20/240		R. Peking, China
	16.89	50		Tinang (VOA), Philippines
	16.89	100/250		Delano, USA
17770	16.88	60/100		R. Roma, Italy
	16.88	100		R. Free Europe, Portugal
	16.88	100		Hörby, Sweden
	16.88	50		Karachi, Pakistan
	16.88	7.5	ZL5	Wellington, New Zealand
17775	16.88	100		Vienna, Austria
	16.88	10	LKW	R. Norway, Norway
	16.88	120		R. Bucharest, Rumania
	16.88	240		Khabarovsk, USSR
	16.88	240		Riazan, USSR
	16.88	50/500		Greenville, USA
17780	16.87	50		R. Liberty, Germany
	16.87	7.5/5		Athens, Greece

kHz	m	kW	Call	Stations & Countries
17780	16.87	120		Lvov, USSR
	16.87	50/250		Monrovia (VOA), Liberia
	16.87	10/100	VUD	AIR Delhi, India
	16.87	20/240		R. Peking, China
	16.87	50	BED95	Taipei (BCC), Taiwan
17785	16.87	50		Frunze, USSR
	16.87	50		R. Brazzaville, Congo
	16.87	50/100		Cairo, United Arab Rep.
	16.87	100		R. Japan, Japan
	16.87	110		Bethany, USA
17790	16.86	100	DMQ17	Deutsche Welle, Germany
	16.86	100/250		BBC London, Gt. Britain
	16.86	50		Krasnoyarsk, USSR
	16.86	250		Darwin (ABC), Australia
17795	16.86	15/100		R. Budapest, Hungary
	16.86	100		R. Roma, Italy
	16.86	100		Serpukhov, USSR
	16.86	250		R. RSA, South Africa
	16.86	20/240		R. Peking, China
	16.86	5		R. Dif. Amazonas, Brazil
17800	16.85	50		R. Sofia, Bulgaria
	16.85	100		Allouis, France
	16.85	75/100		BBC London, Gt. Britain
	16.85	100		Hörby, Sweden
	16.85	100	ETLF	Addis Ababa, Ethiopia
	16.85	50/250		Monrovia (VOA), Liberia
	16.85	35/100		Tanger (VOA), Morocco
	16.85	10/100	VUD	AIR Delhi, India
	16.85	50		Karachi, Pakistan
17805	16.85	250		R. Free Europe, Portugal
	16.85	100		Irkutsk, USSR
	16.85	100		Tallinn, USSR
	16.85	50/100		Cairo, United Arab Rep.
	16.85	250		R. RSA, South Africa
17810	16.84	75/100		BBC London, Gt. Britain
	16.84	50/100		R. Nederland, Holland
	16.84	20/240		R. Peking, China
	16.84	10/2	DZI6	Call of the Orient, Philippines
	16.84	300		R. Nederland, Neth. Antilles
17815	16.84	50/100		R. Nederland, Holland
	16.84	100		R. Roma, Italy
	16.84	240		Simferopol, USSR
	16.84	100	ETLF	Addis Ababa, Ethiopia
	16.84	100		Tanger (VOA), Morocco
	16.84	35		Colombo, Ceylon
	16.84	50		Karachi, Pakistan
	16.84	120/240		R. Habana, Cuba
	16.84	10	ZYR58	R. Dif. de São Paulo, Brazil
17820	16.84	75		BBC London, Gt. Britain
	16.84	200		Kiev, USSR
	16.84	50		Tashkent, USSR
	16.84	100		Vatican Radio
	16.84	100	TAV	R. Ankara, Turkey
	16.84	100		R. Australia, Australia
	16.84	50		R. Canada, Canada
	16.84	100/250		Dixon, USA
17825	16.83	100	LLN	R. Norway, Norway
	16.83	50		Frunze, USSR
	16.83	250		R. RSA, South Africa
	16.83	100		R. Japan, Japan
	16.83	35/100		Poro (VOA), Philippines
17830	16.83	100		Munich (VOA), Germany
	16.83	50/100		R. Berlin Int, Germany
	16.83	50/100		R. Nederland, Holland
	16.83	120		R. Bucharest, Rumania
	16.83	100		Schwarzenburg, Switzerland
	16.83	100		Moscow, USSR
	16.83	35		Colombo, Ceylon
	16.83	10/100	VUD	AIR Delhi, India
	16.83	50/100		Poro (VOA), Philippines
	16.83	250		Greenville, USA
17835	16.82	100		R. Free Europe, Portugal
	16.82	240		Moscow, USSR
	16.82	20/240		R. Peking, China
	16.82	50		Karachi, Pakistan
	16.82	100	WNYW	R. New York, USA
17840	16.82	100		Praha, Czechoslovakia
	16.82	50/100		R. Nederland, Holland
	16.82	100		Hörby, Sweden
	16.82	100		Moscow, USSR
	16.82	100		Vatican Radio
	16.82	50/100		Cairo, United Arab Rep.
	16.82	100		R. Australia, Australia
	16.82	100	WNYW	R. New York, USA
17845	16.81	100	DMQ17	Deutsche Welle, Germany
	16.81	100		Hörby, Sweden
	16.81	100		Schwarzenburg, Switzerland
	16.81	10/100	VUD	AIR Delhi, India
	16.81	50/500		Greenville, USA
17850	16.81	100		Allouis, France
	16.81	120/18		R. Bucharest, Rumania
	16.81	240		Moscow, USSR
	16.81	120/240		R. Peking, China
	16.81	10/100	VUD	AIR Delhi, India
	16.81	50		Karachi, Pakistan
	16.81	50/500		Greenville, USA
	16.81	100/250		Delano, USA
	16.81	100/250		Dixon, USA
	16.81	10	ZYZ	R. Nacional, Brazil
17855	16.80	100		Vienna, Austria
	16.80	250		Wooffertoon (VOA), Gt. Brit.
	16.80	100		R. Liberty, Spain
	16.80	100		Schwarzenburg, Switzerland
	16.80	100		Novosibirsk, USSR
	16.80	50/250		Monrovia (VOA), Liberia
	16.80	35		Tanger (VOA), Morocco
	16.80	120/240		R. Peking, China
	16.80	10/50		Karachi, Pakistan
17860	16.80	100	ORU3	Wavre, Belgium
	16.80	75		BBC London, Gt. Britain
	16.80	100		Kursk, USSR
	16.79	100		Vatican Radio
	16.80	20/240		R. Peking, China
17865	16.80	25		R. Free Europe, Portugal
	16.80	100		R. Liberty, Germany
	16.80	30/100		Warsaw, Poland
	16.80	50/100		Cairo, United Arab Rep.
17870	16.79	75/250		BBC London, Gt. Britain
	16.79	240		Riazan, USSR
	16.79	50/250		Monrovia (VOA), Liberia
	16.79	100		R. Australia, Australia
17875	16.79	100		Allouis, France
	16.79	100	DMQ17	Deutsche Welle, Germany
	16.79	100		R. Liberty, Spain
	16.79	50/100		Cairo, United Arab Rep.
	16.79	50/250		Monrovia (VOA), Liberia
	16.79	20/240		R. Peking, China
	16.79	7.5	PRL2	R. Min. Educação, Brazil
17880	16.78	100		Vienna, Austria
	16.78	100		R. Berlin Int, Germany
	16.78	75		BBC London, Gt. Britain
	16.78	50/100		R. Nederland, Holland
	16.78	50/100	CSA45	R. Nacional, Portugal
	16.78	240		Petropavlovsk, USSR
	16.78	50		Tula, USSR
	16.78	7.5		BBC Tebrau, Malaysia
	16.78	50/500		Greenville, USA
	16.78	50	HCJB	La Voz de los Andes, Ecuador
17885	16.78	100		Vienna, Austria
	16.78	100		BBC Limassol, Cyprus
	16.78	75		BBC London, Gt. Britain
	16.78	100		Vatican Radio
	16.78	100/250		Dixon, USA
	16.78	120/240		R. Habana, Cuba
17890	16.77	75/100		BBC London, Gt. Britain
	16.77	5/135		R. Budapest, Hungary
	16.77	50/100		R. Nacional, Portugal
	16.77	100		Armavir, USSR
	16.77	100		Komsomolsk, USSR
	16.77	50/250		Monrovia (VOA), Liberia
	16.77	50	BED40	Taipei (BCC), Taiwan
	16.77	110		Bethany, USA
	16.77	50		Greenville, USA
	16.77	50	HCJB	La Voz de los Andes, Ecuad.
	16.77	10	OCX4O	R. Nacional, Lima, Peru
17895	16.76	50		R. Liberty, Germany
	16.76	50/100	CSA66	R. Nacional, Portugal
17897	16.76	20/240		R. Peking, China
17905	16.76	50/100		Cairo, United Arab Rep.
				17910-21450kHz
17910	16.76	250		Ejura, Ghana
17920	16.74	50/100		Cairo, United Arab Rep.
17930	16.73	50/100		Cairo, United Arab Rep.
17945	16.72	50		Karachi, Pakistan
18080	16.59	100		BBC London, Gt. Britain
*18985	15.80	30	OLD2	Praha, Czechoslovakia
*20000	15.00	20	RWM	Moscow, USSR
*	15.00	2.5	WWV	Fort Collins, USA
†20225	14.83		NSS	Annapolis, USA
				21450-21750kHz (13 metre band)
21450	13.99	100		Allouis, France
	13.99	100		Praha, Czechoslovakia
	13.99	100		R. Berlin Int, Germany
21455	13.98	75/100		BBC London, Gt. Britain
	13.98	100		Lagos (NBC), Nigeria
21460	13.98	100		Tula, USSR
	13.98	100/250		Delano, USA
21465	13.98	100		R. Berlin Int, Germany
21470	13.97	250		BBC London, Gt. Britain
	13.97	5	DZH9	Dumaguete City, Philippines
21475	13.97	100		R. Berlin Int, Germany
	13.97	50		Novosibirsk, USSR
21480	13.97	100		R. Nederland, Holland
	13.97	120/240		R. Peking, China
21485	13.96	7.5/5		Athens, Greece
	13.96	100		Vatican Radio
	13.96	250		Darwin (ABC), Australia
	13.96	140/240		Bethany, USA
21490	13.96	75/100		BBC London, Gt. Britain
21495	13.96	100		R. Berlin Int, Germany
	13.96	100		Orenburg, USSR
	13.96	50/100	CSA67	R. Nacional, Portugal
	13.96	35/100		Okinawa (VOA), Ryukyu Isl.
21500	13.95	1.5/50		R. Brazzaville, Congo
	13.95	100		Lagos (NBC), Nigeria
	13.95	250		R. RSA, South Africa
	13.95	100/250		Delano, USA
21505	13.94	100		R. Nederland, Holland

kHz	m	kW	Call	Stations & Countries
21505	13.94	240		Erevan, USSR
21510	13.94	100	ORU4	Wavre, Belgium
	13.94	250		Woofferton (VOA), Gt. Brit.
21515	13.94	2	DZI9	Call of the Orient, Philippines
	13.94	140/250		Bethany, USA
21520	13.94	100		Allouis, France
	13.94	100		Schwarzenburg Switzerland
	13.94	50/250		Monrovia (VOA), Liberia
21525	13.94	100	ORU4	Wavre, Belgium
	13.94	100	WNYW	R. New York, USA
	13.94	50		R. Kuwait, Kuwait
21530	13.93	75/100		BBC London, Gt. Britain
	13.93	50		Frunze, USSR
21535	13.93	250		R. RSA, South Africa
	13.93	100		R. Japan, Japan
21540	13.93	100		R. Berlin Int, Germany
	13.93	50/100		R. Nederland, Holland
	13.93	100		Schwarzenburg, Switzerland
	13.93	100		Kursk, USSR
	13.93	50		R. Australia, Australia
21545	13.92	100		Tema, Ghana
21550	13.91	75/250		BBC London, Gt. Britain
21560	13.91	100	DMQ21	Deutsche Welle, Germany
	13.91	100		Munich (VOA), Germany
	13.91	60		R. Roma, Italy
	13.91	25/100		Vatican Radio
21565	13.91	50/100		R. Nederland, Holland
	13.91	100		Lvov, USSR
21570	13.91	100		R. Nederland, Holland
	13.91	50		Poro (VOA), Philippines
21575	13.91	50/100		R. Nederland, Holland
	13.91	100		Moscow, USSR
21580	13.90	100		Allouis, France
	13.90	100	DMQ21	Deutsche Welle, Germany
	13.90	100	VUD	AIR Delhi, India
21585	13.90	100		Hörby, Sweden
	13.90	50/100		Cairo, United Arab Rep.
	13.90	100		R. Afghanistan, Afghanistan
	13.90	50/500		Greenville, USA
21590	13.90	100	ORU3	Wavre, Belgium
	13.90	75/100		BBC London, Gt. Britain
	13.90	50		Karachi, Pakistan
	13.90	140/250		Bethany, USA
21595	13.89	75/100		BBC London, Gt. Britain
	13.89	50		R. Canada, Canada
21600	13.89	100		R. Berlin Int, Germany
	13.89	75/100		BBC London, Gt. Britain
	13.89	240		Leningrad, USSR
	13.89	120/240		R. Peking, China
	13.89	110		Bethany, USA
21605	13.89	200		Armavir, USSR
21610	13.88	7.5/100		BBC Limassol, Cyprus
	13.88	75/100		BBC London, Gt. Britain
	13.88	100/250		Dixon, USA
21615	13.88	75/100		BBC London, Gt. Britain
	13.88	100		Riga, USSR
	13.88	50/100		Cairo, United Arab Rep.
	13.88	100	VUD	AIR Delhi, India
21620	13.87	100		Allouis, France
21625	13.87	50/100		R. Nederland, Holland
	13.87	100		Frunze, USSR
21630	13.87	100		BBC London, Gt. Britain
	13.87	35/100		Poro (VOA), Philippines
	13.87	100/250		Dixon, USA
21640	13.86	75/100		BBC London, Gt. Britain
	13.86	240		Baku, USSR
	13.85	100		R. Japan, Japan
	13.86	50/500		Greenville, USA
21645	13.85	100		Allouis, France
21650	13.86	100		Allouis, France
	13.86	100	DMQ21	Deutsche Welle, Germany
	13.86	250		Greenville, USA
21655	13.86	100/10	LKC	R. Norway, Norway
21660	13.85	100		BBC Limassol, Cyprus
	13.85	75/100		BBC London, Gt. Britain
	13.85	50/100		R. Nacional, Portugal
	13.85	50/250		Monrovia, Liberia
21665	13.85	50		R. Free Europe, Germany
	13.85	50/100		R. Nederland, Holland
	13.85	5/135		R. Budapest, Hungary
21670	13.84	75/100		BBC London, Gt. Britain
	13.84	10	LLP	R. Norway, Norway
	13.84	50/250		Monrovia (VOA), Liberia
21675	13.84	100		Hörby, Sweden
21680	13.84	100		BBC London, Gt. Britain
	13.84	50		R. Free Europe, Portugal
	13.94	100		Allouis, France
21685	13.83	5/135		R. Budapest, Hungary
	13.83	7.5/10	APD2	Dacca, Pakistan
21690	13.83	100		Hörby, Sweden
	13.83	100		Vatican Radio
	13.83	50		Tanger (VOA), Morocco
	13.83	5		Grenada, Windward Islands
21695	13.85	100/250		Dixon, USA
21700	13.83	100		Praha, Czechoslovakia
	13.83	50/100		R. Nacional, Portugal
21705	13.83		DMQ21	Deutsche Welle, Germany
21710	13.83	100		BBC London, Gt. Britain
21720	13.81	100		R. Free Europe, Portugal
	13.81	250		Ejura, Ghana
21725	13.81	100/250		Dixon, USA
	13.81	100	WNYW	R. New York, USA
21730	13.81	10/120	LLQ	R. Norway, Norway
	13.81	100		Leningrad, USSR
21735	13.81	100		Praha, Czechoslovakia
21740	13.80	75/100		BBC London, Gt. Britain
	13.80	10		R. Australia, Australia
	13.80	50/500		Greenville, USA
†21760	13.79		NPN	Guam
†22593	13.28		NPM	Honolulu, Hawaii
†22635	13.25		NPG	San Francisco, USA
†22845	13.13	10	VHP7	Belconnen, Australia
*25000	12.00	2.5	WWH	Fort Collins, USA
†25590	11.72		NSS	Annapolis, USA
				25600-26100kHz (11 metre band)
25610	11.71	50/100		R. Nederland, Holland
25620	11.71	100/250		Delano, USA
25650	11.70	100		BBC London, Gt. Britain
25670	11.67	100		BBC London, Gt. Britain
25720	11.66	100		BBC London, Gt. Britain
25730	11.66	10	LLL	R. Norway, Norway
25790	11.63	250		R. RSA, South Africa
25820	11.61	250		R. RSA, South Africa
25840	11.61	100		BBC London, Gt. Britain
25850	11.60	100		BBC London, Gt. Britain
25880	11.59	35/100		Tanger (VOA), Morocco
25900	11.58	10/120	LLA	R. Norway, Norway
25920	11.57	75/100		BBC London, Gt. Britain
25950	11.56	50		Greenville, USA
25990	11.55	100/250		Dixon, USA
26040	11.52	50/100		R. Nederland, Holland
	11.52	75/100		BBC London, Gt. Britain
	11.52	50		Greenville, USA
26080	11.50	100		BBC London, Gt. Britain

For your notes:

INTERNATIONAL WATERS

RADIO VERONICA (Comm.)

ADDR: P.O. Box 218, Hilversum, Holland. Studio: Zeedijk 27A, Hilversum. **Te:** 02950.
STATION: M/V "Veronica" anchored 6 miles west off "S. Gravenhage" (The Hague): 1562kHz 8kW — **D.PRGR:** 05.00 (Sat/Sun 06.00)-24.00 (Fri/Sat 01.00).
Spanish 20.00-20.30, **Italian** Sat 21.00-21.30, **Greek** Sun 20.30-21.00, **Indonesian** Thurs 19.00-20.00, **Papiamento** Thurs 20.00-21.00. Other times in Dutch — **N.Wrp:** 07.00-17.00 one min. before every h — **ANN:** "Dit is R. Veronica op 192 meter" or "R. Veronica, Het station waar muziek in zit" — **V.** by QSL-card.

RADIO HAURAKI (Comm.)

ADDR: P.O. Box 1480, Auckland, New Zealand — **Station:** M/V "Tiri" anchored in the Hauraki Gulf: 1480kHz 2kW — **D.Prgr:** 17.00-13.00. **N:** on the h — **V.** by QSL-card.

VERENIGING HOSPITAAL KERKSCHIP "DE HOOP" ..... **(Religious)**

ADDR: Damrak 95, Amsterdam C. **Te:** 24 44 43 — **L.P:** Mgr: P. Broeksma. Chief Radio Operator: H. L. J. Distel (on board).
HOSPITAL-CHURCHVESSEL "DE HOOP": Call: PHKS. 2182 kHz, 2201kHz, 2316kHz (all 0.3kW).
D.PRGR: Wrp. in Dutch (audience 15.000 Dutch fishermen and coaster crews): 09.15-09.25 on 2201kHz, 09.30-09.40 on 2316kHz, 15.15-15.25 on 2201kHz; **Assembly ships Wrp:** 05.45-05.55, 11.45-11.55, 17.45-17.55 on 2201kHz. **Church Services in Dutch:** Sun 09.30-11.30, 17.45-18.30; Wed 18.30-19.00 on 2316kHz.
The Hospital-Church vessel leaves the Netherlands 12 times in 1969 to serve the fishing-vessels, and the above mentioned prgr's will be broadcast during the following periods: 3/1-22/1, 29/1-19/2, 26/2-19/3, 26/3-16/4, 23/4-12/5, 28/5-18/6, 25/6-16/7, 6/8-27/8, 3/9-24/9, 1/10-22/10, 29/10-19/11, 26/11-17/12.
V. by QSL-card Rp. Reports appreciated.
PUB: Prgr. schedule.
Beside the scheduled times on which "De Hoop" is listening on the Dutch Fishery frequencies, continuously watch is kept on the international calling frequency of Radio-telephony: 2182kHz.
Foreign ships may call on the above mentioned frequency in one of the following languages: English, German, French and Dutch. Apart from medical aid, assistance can be rendered in engine trouble, defective radio, equipments and electronic navigation instruments.
Yearly about 300 patients are treated on board of "De Hoop" and 200 medical advices.
Practical assistance and advice by radio are given in 500 cases of radio and other electronic instrument breakdowns and about 400 ships with technical troubles could continue their voyage after assistance of "De Hoop".

LAST MINUTE DETAILS

Obs: Please take note that in several cases last minute amendments received after the main section (pages 79-245) went to press have been included in the Long-, Medium- & Short-Wave Tables.
World Time Chart (page 54): Amend time for Gt. Britain and Ireland to GMT + 1 h.
ANGOLA: Amend Radio Angola to **Emissora Official;**
L.P: Dir. Gen: J. F. Malho Ilharco. St. Mgr: Dr. F. Monteiro Flor. Dir. Tec: J. C. Proenca. **D.Prgr:** 05.00-24.00 (Sat 02.00). **N:** 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 14.00, 15.00, 16.00, 17.00, 19.00, 21.00, 22.00, 23.00. — **Classical Cultural Prgr:** 17.00-23.00 on 1088/4820kHz; **English:** 15.03-16.00 on 7245/11955kHz; **French:** 10.03-11.00 on 11955kHz, 16.03-17.00 (repeat) on 4820kHz.
BELGIUM: International Service:
10.00-12.00 on 17860/21525/21590kHz,
12.15-13.00 on 15335/17860/21525kHz,
13.30-14.30 (Sat) on 11715/15335/17860kHz,
13.30-16.30 (Sun) on 6010/17860/21525kHz,
16.45-17.15 (Sun) on 9740/11715/17860kHz,
14.45-15.45 (W) on 6010/11965/17860kHz,
16.00-17.15 (W) on 9740/11715/17860kHz
17.15-18.30 on 9740/11715/17860kHz,
18.30-21.00 on 9740/11715/17860kHz,
21.15-23.00 on 6010/9615/15335kHz,
23.15-01.00 on 6010/6125/11885kHz.
COSTA RICA: Radio Reloj now using 6065kHz in place of 6207kHz.
CZECHOSLOVAKIA:
TO EUROPE: 08.00-13.00 on 6055/9505kHz (German 08.00, German for Austria 09.30, French 11.00, Italian 12.00); 12.00-12.30 **English** on 9560/11960/15285kHz. 12.30-13.30 Spanish (Sat & Sun only) on 6185/11960/15285kHz, 13.00-14.30 Italian (Sat & Sun only) on 6055/9505kHz; 16.30-17.30 & 18.30-19.30 on 5930/7345kHz (**English** 16.30-17.00, 19.00-19.30; Spanish 17.00-17.30, 18.30-19.00).
TO AFRICA: 15.00-15.30 Czech/Slovak & 15.30-16.30 **English** on 6055*/9600/11990**/15285/17840/21700/21735**kHz, 16.30-17.30 Arabic on 9600/11990/17840kHz, 17.30-18.30 **English** on 5930/7345/9600/11990/17840kHz, 18.30-19.30 French on 9600/11990/17840kHz, 19.30-20.30 Arabic & 20.30-21.30 French on 5930/7345/9600/11990/17840kHz. *) also for Europe; **) also for So. Asia.
TO NO. AMERICA: 13.30-15.00 (Sun only) on 15448/17840/21450 kHz (Czech-Slovak 13.30, **English** 14.00); 01.00-02.00 **English** on 5930/7345/9540/9630/11990kHz. 03.00-03.30 Czech/Slovak on 5930/7345*/9540/9630/11990*kHz (* also for So. America), 03.30-04.30 **English** on 5930/7345/9540/9630/11990kHz.
TO SO. & CE. AMERICA: 21.30-23.00 on 5930/7345/9600/11990/17840kHz (Portuguese 21.30, Czech/Slovak 22.30); 23.00-01.00 & 02.00-03.00 on 5930/7345/9540/9630/11990kHz (Spanish 23.00 & 02.00, Portuguese 00.00).
TO PACIFIC: 07.00-08.00 **English** on 6055*/9505/9575/11800/15310/21450/21700kHz. *) for Europe.

GT BRITAIN: All times for Home Sce. prgrs are local times. Deduct 1 h for GMT.
European Sce: German: Morning prgr's now as follows: 04.15-05.00 on 647/1295/3952/6195/7230/9625/11905kHz, 05.15-05.45 on 3952/6195/7230/11905kHz, 05.45-06.00 on 3952/6050/6195/7230/7260/9690/11950kHz — Add new Evening prgr: 22.45-23.00 on 1295/3952/6195kHz.
ISRAEL: Overseas Service:
English 20.15-20.30 on 9009kHz (to Africa) & 9725kHz (to Europe), 20.30-20.45 on 9725kHz (to Europe, 20.45-21.00 on 9009/9725kHz (to Europe).

WHERE TO OBTAIN THE WORLD RADIO TV HANDBOOK

Great Britain: The Fountain Press, 46-47 Chancery Lane, London W.C.2.

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Belgium: Agence et Messageries de la Presse, Rue de Persil 14a22, Bruxelles.

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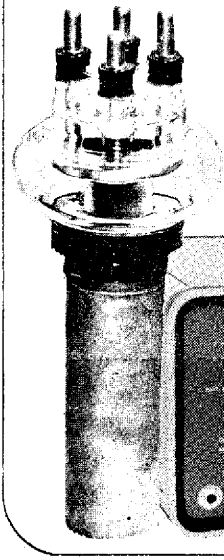

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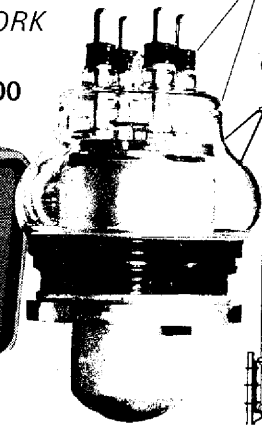

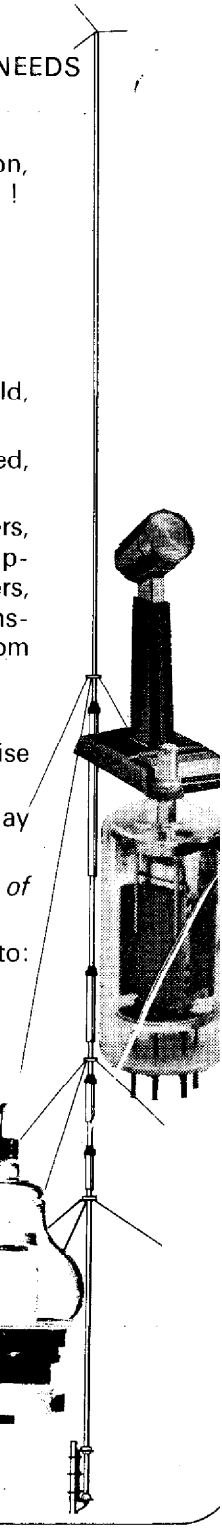

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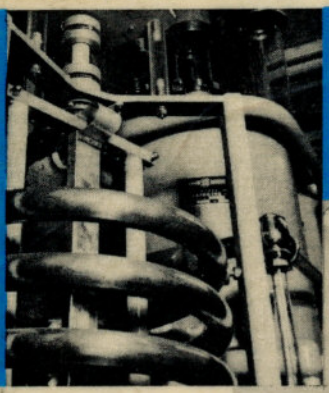

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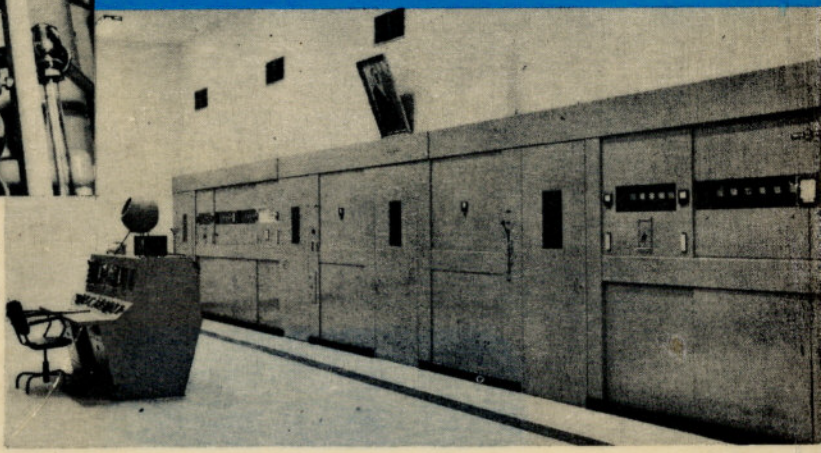

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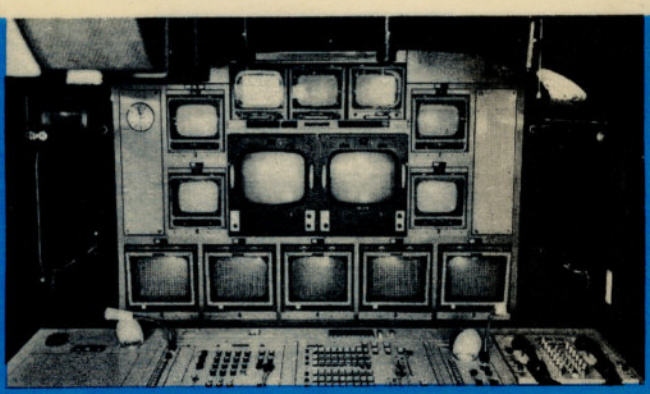

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